

CHAPTER 5

QUALITY ASSURANCE/ANALYSIS

Chapter Objective: Upon completion of this chapter, you will have the knowledge to recognize the purpose of the Naval Aviation Maintenance Discrepancy Reporting Program (NAMDRP), identify the reports covered by the NAMDRP, recognize the responsibilities of the Data Analyst, and identify the important role that analysis plays in support of the Naval Aviation Maintenance Program (NAMP). You will also be able to identify the source documents used in the Maintenance Data System (MDS), and recognize the key reports generated by the MDS.

The quality assurance/analysis (QA/A) division is staffed with a relatively small group of highly skilled personnel. These permanently assigned personnel under the QA/A officer are responsible for conducting and managing the QA/A effort of the department. The maintenance personnel assigned to QA/A are known as quality assurance representatives (QARs). To obtain more efficient use of information collected by the Maintenance Data System (MDS), and to increase the scope of QA/A, a qualified data analyst is assigned. The primary duty of the data analyst is to perform all MDS functions of QA/A. The data analyst will not be assigned the duties of technical publications librarian or QAR. It is also the responsibility of QA/A personnel to maintain the central technical publications library, which was previously discussed in chapter 3 of this TRAMAN.

NAVAL AVIATION MAINTENANCE DISCREPANCY REPORTING PROGRAM (NAMDRP)

This program is the method by which hazardous deficiencies in material and publications, substandard workmanship, and improper quality assurance (QA) procedures are reported,

As an AZ3 or AZ2 you should know the purpose of each of the discrepancy reports; be able to review them for completeness, correct phraseology, part number identification, and

nomenclature; and furnish information from the aircraft logbook for their preparation. Chapter 6 of this TRAMAN provides information as to what is recorded in the various sections of the aircraft logbook. If you are the AZ who is responsible for the preparation of discrepancy reports, you should be familiar with the preparation and maintenance of the aircraft logbook as well as the preparation of NAMDRP reports.

The reports described in this section provide a method for reporting safety situations and quality deficiencies that require special attention and/or prompt corrective action. The QA/A division is responsible for managing the NAMDRP. QA/A will assist the work centers in determining if one or more reports are needed for any maintenance problem or situation occurring in the activity and review all reports to ensure they are accurate, clear, concise and comprehensive. The QA officer should review all of the reports listed below:

- Hazardous Material Report (HMR). This report provides a standard system for reporting material deficiencies. These deficiencies, if not corrected, could result in death or injury to personnel, or damage to or loss of aircraft, equipment, or facilities.

- Explosive Mishap Report (EMR). This report provides a standard system for reporting explosive incidents, malfunctions, and dangerous defects (referred to as explosive mishaps)

involving explosive systems (ordnance and cartridge-actuated devices), launch devices (devices used to launch or fire explosive systems), and armament weapons support equipment (AWSE). An explosive mishap is defined as any condition involving explosive systems, launch devices, or AWSE. These conditions, if not corrected, could result in death or injury to personnel, or damage to or loss of aircraft, equipment or facilities.

- **Engineering Investigation (EI).** EIs provide an investigation process that determines the cause of fleet-reported, equipment/material failures. It is a material analysis inspection or an engineering assistance investigation.

- **Quality Deficiency Report (QDR).** This report provides maintenance activities with a method for reporting deficiencies in new material or newly reworked material.

- **Aircraft Discrepancy Report (ADR).** This report provides a direct method for reporting discrepancies in quality assurance procedures to naval aviation depots (NAVAVNDEPOTs) and civilian contractors performing maintenance on aircraft.

- **Technical Publication Deficiency Report (TPDR).** This report provides a simplified procedure for reporting technical publication safety hazards and routine deficiencies.

Safety is the primary consideration for reports discussed in this section. If a report being submitted meets the criteria for an HMR/EMR and warrants an EI request or category (CAT) I QDR, it should be transmitted as a dual message report; for example, EMR/EI request. All HMRs, EMRs, EI request, and QDRs are submitted to the cognizant field activity (CFA). All supplemental data submitted in conjunction with this program will identify the original submitting activity's report serial number and message date-time group. Copies of reports are retained for 1 year.

A NAMDRP message report is prepared and submitted only under one or more of the following six conditions:

1. When an explosive/accident/incident/malfunction is involved.
2. When the existence of a known condition which, if not corrected, will or could result in

death or injury to pilot, crew, maintenance personnel, or other persons or loss of aircraft. This report is to be made by priority message within 24 hours of discovery.

3. When an urgent change is required to safety or loading or handling instructions to prevent a hazardous condition from occurring.

4. When urgent action or assistance is required or requested.

5. When a condition is detected that allows, due to the design of a part or component, incorrect installation. This condition can be or has been easily accomplished, and system malfunction or failure was the result (Murphy's Law).

6. When damage to an aircraft occurs due to failure of support equipment (SE).

CFA response to an EMR, HMR, and all combined reports, such as HMR/EI, must be provided to the requesting activity within 72 hours of their receipt of the request; within 5 working days after receipt of a routine EI request, CAT I QDR, or CAT I TPDR; within 10 working days after receipt of a CAT II QDR; as soon as possible, but not later than 45 days after receipt of an ADR (30 days in the case of aircraft reworked at a NAVAVNDEPOT); and within 30 days after receipt of a CAT II TPDR.

PREPARATION OF NAMDRP MESSAGE REPORTS

As an AZ you may be required to submit a NAMDRP report in the course of your duties. Most often, however, you will be required to type a smooth report prepared in a rough form by another person attached to the maintenance activity.

The following content and format applies to the HMR, EMR, EI request, and CAT I QDR message reports. You should note that the spaces on these reports are numbered consecutively from 1 to 22. The basic data for each space is shown below. Detailed procedures for preparation, security classification, and forwarding of completed NAMDRP message reports are contained in the latest edition of OPNAVINST 4790.2.

1. Reporting custodian/unit identification code (UIC).

2. Cognizant field activity (CFA) for failed item. Enter the aircraft CFA when reporting common/general material not installed on, or peculiar to, specific aircraft.

3. Report control number (RCN). Report control numbers begin with 0001 at the beginning of each calendar year and progress consecutively throughout the year. Permanent detachments (detachments with OINCs, for example, LAMPS, HC) will assign report control numbers independently of the parent activity.

4. Julian date deficiency discovered/location of reporting unit. Omit location if entry will cause message to become classified.

5. National stock number. The correct national stock number, including all prefixes and suffixes of the item being reported, is entered in this space. This may require the use of catalogs and various manuals.

6. Nomenclature. The noun name of the item being reported is entered here. If necessary, reference should be made to the IPB for correct terminology.

7. For new material, indicate manufacturer's name and code and the shipper's name; for reworked material, the last rework facility.

8. Manufacturer's part number. The manufacturer's part number of the failed item is entered in this space. This information is normally found on the nameplate attached to the part. If not on the nameplate, refer to the SRC card, or to the latest applicable IPB.

9. Serial/lot/batch number. The serial/lot/batch number of the item being reported is entered in this space. This is usually found on the nameplate of the part or on the shipping container of lots and batches.

10. Contract/purchase order/document number (on shipments from government service administration facilities, include contract, purchase order, and requisition number). The contract number can normally be found on the item nameplate, SRC card, or shipping container, if available. The contract number is essential information for material replacement or cost adjustment under the warranty clause in government contracts.

11. New/reworked/overhauled, if known. This item relates to item 6.

12. Date manufactured/reworked (if applicable). This information may be obtained from decals, stamps, logbooks, or SRC cards.

13. Operating time at failure. Based on entry item 12, indicate the time material had been in service since new or rework when the deficiency was discovered. See item 12 for possible sources of information.

14. Government furnished material. (Yes or no, if QDR; N/A if not). This is material or

equipment that has been furnished by the government to a contractor or government activity for installation in, use with, or in support of the aeronautical system during production, conversion, or modification.

15. Quantity. Quantity is a count of each individual unit of issue (QDR only, N/A if not). (A) received, (B) inspected, (C) deficient, (D) items in stock at activity.

16. Deficient item works on or with. In order of importance, enter (A) end item (B) next higher assembly.

17. Dollar value of deficient items (if known, otherwise UNK) and man-hours to repair.

18. N/A

19. Item under warranty. Enter yes, no, or UNK as applicable.

20. Work unit code. Enter the work unit code as listed in block A22 of the VIDS/MAF,

21. Action/disposition. If holding for investigation, indicate holding activity, location, and time to be held at the activity; for example, holding exhibit 30 days for investigation at Building 4, Naval Supply Depot, Norfolk. If the exhibit is a cartridge-actuated device or an aircrew escape propulsion system (CADS/AEPS) item, provide the name of the holding station/ship ordnance department and the locally assigned turn-in document number. If no response is required, specify CFA response not required.

22. Details. The details should be entered as follows:

a. Narrative description of abnormal function, known or probable causes, pertinent TDs not incorporated, comments or recommendations, and EI (if requested). Photographs to follow (if applicable).

b. How safety of personnel or activity mission is affected.

c. Number of similar deficiencies in like items reported by the originating activity; for example, 5 in the past 4 months.

d. How deficiency was detected or confirmed; for example, visually or functional operation. Where deficiency was discovered; for example, maintenance/in flight.

e. Storage/handling information, if applicable.

f. Indicate if supporting documents will be supplied. When photographs are taken, place a ruler alongside the object so it will appear in each photograph. Measurements should also appear on sketches.

g. Description of incorrectly identified new material, if applicable.

h. If you are preparing an EMR, the list of items required in this section are too numerous to mention here. Refer to the latest edition of OPNAVINST 4790.2.

i. The name, title, and AUTOVON number of the knowledgeable person to contact (if deployed, so indicate).

j. Aircraft model and bureau number (if not already included).

k. Aircraft engine, auxiliary power unit (APU), or support equipment gas turbine engine, model and serial number, time since new, time since overhaul, last overhaul activity, and number of overhauls (if applicable and not already included).

HAZARDOUS MATERIAL REPORT (HMR)

This report provides a standard method for reporting material deficiencies, which, if not corrected, could result in death or injury to personnel, or damage to or loss of aircraft, equipment, or facilities. An HMR priority precedence message (fig. 5-1) is submitted within 24 hours of discovery of one or more of the following conditions:

1. When a malfunction or failure of a component part that, if not corrected, could result in death or injury to personnel, or damage to or loss of aircraft, equipment or facilities.

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FROM: NAS GREEN COVE SPRINGS FL
TO: NAVWPNCEN CHINA LAKE CA
AIG FOUR TWO THREE
INFO: COMASWINGPAC SAN DIEGO CA
USS GOLDWATER
UNCLAS //N04790//
SUBJ: HAZARDOUS MATERIAL REPORT
MSGID/GENADMIN/AIMD//
REF/A/DOC/OPNAV/01JAN89//
AMPN/OPNAVINST 4790.2E//
RMKS/1. NAS GREEN COVE SPRINGS/00123
2. NAVWPNCEN CHINA LAKE CA
3. N00123-88-0003
4. 8239/GREEN COVE SPRINGS
5. 2RH 1670-00-127-5598
6. NES-12H PARACHUTE ASSEMBLY
7. N/A
8. 107AS 106-1
9. SERIAL NO. 211257
10. N/A
11. N/A
12. REPACKED 8016
13. 223 DAYS
14. N/A
15. N/A
16. S-3A
17. N/A
18. N/A
19. N/A
20. 91A20
21. REPACKED 1AW NA 13-1-6.2 AND RETURNED TO SERVICE.
22. A. SUBJ PARACHUTE LAST PACKED ON BOARD CV 58 INDUCTED FOR 224 DAY INSPECTION AT AIMD GREEN
COVE SPRINGS. INSPECTION REVEALED FOLLOWING DISCREPANCY: LOWER PACK OPENING BANDS
ROUTED OVER EPC LANYARD VICE UNDER.
B. THIS CONDITION COULD HAVE SERIOUSLY IMPEDED PROPER OPERATION OF PARACHUTE DURING
EJECTION.
C. ZERO
D. VISUAL INSPECTION/MAINTENANCE
E. N/A
F. PHOTO AVAILABLE ON REQUEST
G. N/A
H. N/A
I. REDMOND PRC, AUTOVON 951-7650
J. THROUGH L. N/A//

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Figure 5-1.-Sample Hazardous Material Report (HMR).

2. When urgent or when assistance is required and corrective action must be completed at an early date because of operational commitments.

3. When a condition is detected that could cause incorrect installation and subsequent system malfunction due to the design of a part.

4. A potential or experienced in-flight or on-the-ground loss of aircraft parts in which maintenance/material factors are involved. The terminology "Things Falling Off Aircraft (TFOA)" is used when referring to such incidents. TFOA includes incidents such as a FODed engine which sheds parts.

EXPLOSIVE MISHAP REPORT (EMR)

This report provides a standard method for reporting explosive incidents, malfunctions, and dangerous defects, which, if not corrected, could result in death or injury to personnel, or damage to or loss of aircraft, equipment or facilities. An EMR priority precedence message (fig. 5-2) is submitted within 24 hours of discovery under one or more of the following conditions:

1. When a malfunction or failure of an explosive system, launch device, or AWSE is detected, which, if not corrected, could result in death or injury to personnel, or damage to or loss

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FROM: FITRON SEVEN ONE
TO: COMPAQMISTESTCEN PT MUGU CA
    AIG FOUR TWO THREE
    AIG SEVEN SIX TWO ZERO
INFO: COMTACWINGSLANT OCEANA VA
    COMCARAIRWING EIGHT
    USS FRANKLIN
UNCLAS //NO4790//
SUBJ: EXPLOSIVE MISHAP REPORT
MSGID/GENADMIN/VF-71 QA//
REF/A/DOC/OPNAV/01JAN89//
REF/B/DOC/OPNAV/03MAR89//
NARR/REF A IS OPNAVINST 4790.2E, REF B IS OPNAVINST 5102.1C//
RMKS/1. VF-71/34567
2. PACMISTESTCEN PT MUGU CA
3. R34567-88-0040
4. 7365/DEPLOYED
5. 8E 1410-01-056-9405
6. AIM-9L TACTICAL GUIDED MISSILE
7. 49956
8. N/A
9. SER. NO. KRE-0235
10. UNK
11. REWORKED
12. 20 APRIL 86
13. 137.9 HRS
14. N/A
15. N/A
16. F-14A
17. 58,000/UNK
18. N/A
19. UNK
20. 75M12
21. HOLDING 30 DAYS AT WEAPONS DEPT USS FRANKLIN (CV-58).
22. A. ARMING DEVICE WILL NOT STAY IN ARMED POSITION, GOES TO SAFE IN FLIGHT.
    B. POSSIBLE LOSS OF MISSION CAPABILITY.
    C. TWO IN LAST SIX MONTHS.
    D. VISUAL ON AIRCRAFT RECOVERY.
    E. THROUGH G. N/A
    H. (1) NONE
        (2) VISIBILITY 5 MILES AND SCATTERED/WIND 9 KNOTS/TEMP 76 DEG F.
        (3) AIM-9L TACTICAL GUIDED MISSILE/SER. NO. KRE-0235/DODIC PA72/8E 1410-01-056-9405.
        (4) LAU-7/A-5 SER. NO. 0032/AIRCRAFT STA. 1A.
        (5) N/A
        (6) 52
        (7) SAFE/ARM SWITCH OF ARMING DEVICE WILL NOT STAY IN ARMED POSITION WHILE IN FLIGHT.
        (8) THROUGH (15). N/A
        (16) AIM-9L LOADED ON AIRCRAFT STA. 1A AND 8A.
    I. AOC B.B. STACKER/ARMAMENT BRANCH CPO/DEPLOYED
    J. F-14A/161162
    K. AND L. N/A//
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Figure 5-2.-Sample Explosive Mishap Report (EMR).

of aircraft, equipment or facilities. Any explosive mishap involving aircrew error must be reported using the latest edition of OPNAVINST 3750.6 or OPNAVINST 5102.1.

2. When a malfunction or failure of an explosive system is found to be caused by failed material. This report is a combined EMR/QDR or EMR/EI as appropriate.

3. When urgent action or assistance is required to correct a deficiency at an early date because of an operational commitment.

4. When an urgent change to ordnance loading or launch device/AWSE safety instructions is required to prevent a hazardous condition from occurring.

5. When a condition is detected that could cause incorrect installation and subsequent system malfunction due to the design of a part.

ENGINEERING INVESTIGATION (EI)

The EI comprises three types of investigation: disassembly and inspection, material analysis, and engineering assistance. Only the disassembly and inspection procedures will be discussed in this section since the procedures for requesting any of the three types of investigation are the same.

Engineering investigations (fig. 5-3) are requested by a routine precedence message within 5 working days after discovery of the deficiency, unless combined with an HMR/EI, under one or more of the following conditions:

1. When safety is involved. This includes EI requests prepared in conjunction with accidents/incidents, ground accidents/incidents, and impending malfunctions when it is evident that an unsafe condition exists.

2. When additional technical or engineering information is required to complete an accident report.

3. When aircraft readiness is seriously impaired due to poor material (including SE) reliability/maintainability/logistic support.

4. When a component is rejected by the Navy Oil Analysis Program (NOAP) after attempted authorized repairs are exhausted at the organizational and intermediate levels.

5. When specifically directed by higher authority.

All requests for EIs are submitted to the CFA, which will study the history of similar equipment failures and determine the potential value of conducting an EI on the equipment in question. If the study indicates that an EI is not required, the CFA so informs (by message) the requesting activity. If the study indicates an EI is warranted, the CFA assigns a control number to the investigation and provides shipping instructions to the requesting and holding activities by message. Whether an EI is warranted or not, the CFA must respond by message within 5 calendar days after receipt of the EI request to the requesting activity. For an approved EI request, the CFA will follow up on equipment not received from the holding activity within 20 days. Activities should maintain each EI on file for a period of 1 year.

QUALITY DEFICIENCY REPORT (QDR)

This report provides maintenance activities with a method for reporting deficiencies in new material or reworked material that may be attributable to nonconformance to contractual or specification requirements or substandard workmanship.

New material is defined as material procured under contract from industry or manufactured by an in-house facility that is still under warranty. All material, whether in actual operation or on the shelf, is considered new until the warranty expires.

Reworked material is that material overhauled, rebuilt, repaired, or modified by government or commercial activities but unproven in actual operations.

The category I (CAT I) QDR is a report on a quality deficiency, which will, or may, affect life or limb of personnel or impair the combat capabilities of the using organization or individual or that affects operational capability to the extent that mission accomplishment is jeopardized. The category II (CAT II) type of QDR is made on all other deficiencies that do not meet the criteria set forth in category I.

FROM: USS ARTHUR W RADFORD
 TO: NAVAVNDEPOT PENSACOLA FL
 AIG FOUR TWO THREE
 INFO: COMSEABASEDASWWINGSLANT JACKSONVILLE FL
 COMHELSEACONWING ONE NORFOLK VA
 HELANTISUBRON LIGHT TWO THREE
 HELANTISUBRON LIGHT THREE ZERO
 HELANTISUBRON LIGHT THREE TWO
 HELANTISUBRON LIGHT THREE SIX
 HELANTISUBRON LIGHT THREE FOUR DET ONE
 USCOMSOLANT
 UNCLAS //N04790//
 SUBJ: ENGINEERING INVESTIGATION REQUEST
 MSGID/GENADMIN/HSL-23 DET 2//
 REF/A/DOC/OPNAV/01JAN89//
 AMPN/OPNAVINST 4790.2E//
 RMKS/1. HSL-23 DET 2/23456
 2. NADEP PENSACOLA
 3. V23456-88-0002
 4. 8125/DEPLOYED
 5. 2RH 1615-01-010-9102 BH
 6. TAIL ROTOR GEARBOX
 7. NADEP PENSACOLA
 8. KG7165Z-5
 9. SER 021-90M-91
 10. N/A
 11. REWORKED
 12. REWORKED 18 NOV 87
 13. 2359.6 SINCE NEW. 888.8 SINCE OVERHAUL
 14. N/A
 15. N/A
 16. SH-2F
 17. \$7100.00/UNK
 18. N/A
 19. UNK
 20. 26210
 21. HOLDING ON USS ARTHUR W RADFORD FOR 30 DAYS FOR SHIPPING INSTRUCTIONS.
 22. A. REMOVED ON ADVICE OF NOAP LAB NADEP NORFOLK DUE TO VERY HIGH IRON AND INCREASING
 COPPER CONTENT.
 B. POSSIBLE LOSS OF AIRCRAFT/AIRCREW.
 C. NONE
 D. OIL ANALYSIS
 E. THROUGH H. N/A
 I. LT. T.E. BOGGS, DET MO, DEPLOYED
 J. 149769
 K. AND L. N/A//

Figure 5-3. Sample Engineering Investigation (EI) Request.

The CAT I QDR (fig. 5-4) is submitted by routine precedence message within 2 working days after discovery of the deficiency (unless combined with an HMR/EMR). The CAT II QDR (figs. 5-5 and 5-6) is submitted on a standard form (SF) 368 within 5 working days after discovery of the deficiency to the CFA. Instructions on how to

prepare the CAT II QDR using SF 368 are listed below:

Section I. Section I is to be completed by the originating point as the information is applicable and available.

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FROM: TRARON SEVEN SIX
TO:   NAVAVNDEPOT NORTH ISLAND CA
      AIG FOUR TWO THREE
INFO: COMTRAWING SEVEN
      NAS MERIDIAN MS
UNCLAS //N04790//
SUBJ: CAT I QUALITY DEFICIENCY REPORT
MSGID/GENADMIN/VT-76 QA//
REF/A/DOC/OPNAV/01JAN89//
AMPN/OPNAVINST 4790.2E//
RMKS/1. VT-76/34567
2.   NAVAVNDEPOT NORIS
3.   N34567-88-0012
4.   8068/NAS MERIDIAN MS
5.   1RD 2620-00-099-1848 SZ
6.   TIRE
7.   GOODYEAR 86896
8.   44319628
9.   SER K339-5M-2
10.  UNK
11.  NEW
12.  UNK
13.  NO TIME
14.  NO
15.  A. REC'D 4
      B. INSP 4
      C. DEFICIENT 3
      D. IN STOCK 5
16.  T-2C
17.  UNK
18.  N/A
19.  YES
20.  13510
21.  HOLDING 30 DAYS AT NAS MERIDIAN SUPPLY BLDG 601 PENDING DISPOSITION INSTRUCTIONS
22.  A. TIRES REC'D FROM SUPPLY. INSPECTION REVEALED TIRES UNACCEPTABLE DUE TO SIDEWALLS
      BLISTERED ON TWO TIRES, BEAD SHOWS CRACKS ON ONE TIRE.
      B. DAMAGE TO A/C AND MAINTENANCE PERSONNEL
      C. NONE
      D. VISUAL INSPECTION/RECEIPT
      E. N/A
      F. THROUGH H. N/A
      I.  AMSC P. T. JONES, LINE CPO, AUTOVON 564-3494
      J. THROUGH L. N/A//

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Figure 5-4.-Sample Category I Quality Deficiency Report (CAT I QDR).

Item 1. From (Originating point). The originating point enters their address in block 1a, the name, duty phone, and signature of an individual who can serve as a contact for questions regarding the report in block 1b, and the date the report was signed and forwarded to the screening or action point in block 1c.

Item 2. To (Screening point). The originating point will complete the name of

screening point activity, the activity address code, address including zip code of the screening point where the report needs to be sent by the originator's activity in block 2a, the name, telephone number and signature of the individual who may serve as the screening point's point of contact in block 2b, and the date the person finished processing the report at the screening point in block 2c.

PRODUCT QUALITY DEFICIENCY REPORT					<input type="checkbox"/> CATEGORY I <input type="checkbox"/> CATEGORY II	
1a. FROM (Originator)			2a. TO (Screening Point)			
1b. NAME, TELEPHONE NO. AND SIGNATURE		1c. DATE	2b. NAME, TELEPHONE NO. AND SIGNATURE		2c. DATE	
3. REPORT CONTROL NO.	4. DATE DEFICIENCY DISCOVERED	5. NATIONAL STOCK NUMBER (NSN)		6. NOMENCLATURE		
7a. MANUFACTURE/CITY/STATE	7b. MFRS. CODE	7c. SHIPPER/CITY/STATE			8. MFRS. PART NO.	
9. SERIAL/LOT/BATCH NO.	10a. CONTRACT NO.	10b. PURCHASE ORDER NO.	10c. REQUISITION NO.	10d. GBL NO.		
11. ITEM <input type="checkbox"/> NEW <input type="checkbox"/> REPAIRED/ OVERHAULED	12. DATE RECD., MFRD, RE- PAIRED, OR OVERHAULED	13. OPERATING TIME AT FAILURE		14. GOVERNMENT FURNISHED MATERIAL <input type="checkbox"/> YES <input type="checkbox"/> NO		
15. QUANTITY	a. RECEIVED	b. INSPECTED	c. DEFICIENT		d. IN STOCK	
16. DEFICIENT ITEM WORKS ON/WITH	a. END ITEM (AIRCRAFT, MOWER, ETC.)	(1) TYPE/MODEL/SERIES			(2) SERIAL NO.	
	b. NEXT HIGHER ASSEMBLY	(1) NATIONAL STOCK NO. (NSN)	(2) NOMENCLATURE	(3) PART NO.	(4) SERIAL NO.	
17. UNIT COST \$	18. ESTIMATED REPAIR COST \$	19a. ITEM UNDER WARRANTY <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UN- KNOWN		19b. EXPIRATION DATE		
20. WORK UNIT CODE/EIC (NAVY AND AIR FORCE ONLY.)						
21. ACTION/DISPOSITION <input type="checkbox"/> HOLDING EXHIBIT FOR _____ DAYS <input type="checkbox"/> RELEASED FOR <input type="checkbox"/> INVESTIGATION <input type="checkbox"/> RETURNED TO STOCK <input type="checkbox"/> OF <input type="checkbox"/> DISPOSED <input type="checkbox"/> REPAIRED <input type="checkbox"/> OTHER (EXPLAIN IN ITEM 22)						
22. DETAILS (Describe, to best ability, what is wrong, how and why, circumstances prior to difficulty, description of difficulty, cause, action taken, including disposition, recommendations. Attach copies of supporting documents. Continue on separate sheet if necessary.)						
<h1>SAMPLE</h1>						
23. LOCATION OF DEFICIENT MATERIAL						
24a. TO (Action Point)			25a. TO (Support Point) (Use items 26 and 27 if more than one)			
24b. NAME, TELEPHONE NO. AND SIGNATURE		24c. DATE	25b. NAME, TELEPHONE NO. AND SIGNATURE		25c. DATE	
26a. TO (Support Point)			27a. TO (Support Point)			
26b. NAME, TELEPHONE NO. AND SIGNATURE		26c. DATE	27b. NAME, TELEPHONE NO. AND SIGNATURE		27c. DATE	

NSN 7540-00-133-5541

STANDARD FORM 368 (REV. 10-85)

Figure 5-5.-Sample Category II Quality Deficiency Report (CAT II QDR), Standard Form (SF) 368 (Front).

Item 3. Enter the Report Control Number (RCN).

Item 4. Date Deficiency Discovered. Enter the Julian date the deficiency discovered.

Item 5. National Stock Number. Enter the national stock number of the deficient material.

Item 6. Nomenclature. Enter the nomenclature of the material found to be deficient.

Item 7. Enter the name/city/state of the manufacturer, maintenance contractor, or government activity that last repaired or overhauled the deficient item in block 7a, the manufacturers code in block 7b, and when the shipper of the item is different from the

28. FINDINGS AND RECOMMENDATIONS OF INVESTIGATION. (Explain in detail. Continue on separate sheet of paper, if necessary.)	
<h1>SAMPLE</h1>	
29. ACTION TAKEN	
30. RESULTS OF DEPOT SURVEILLANCE	
<h2>INSTRUCTIONS</h2>	
<p>1a. <u>FROM (Originator)</u> - Complete name of activity (no acronyms when sending deficiency report across component lines), activity address code (ACC), address including zip code of the activity originating the report.</p> <p>1b. <u>NAME, TELEPHONE NO., AND SIGNATURE</u> - Provide name, telephone no., (include all available telephone numbers: FTS, Autovon, and commercial) and signature of an individual who can serve as a contact for questions regarding the report and/or to request exhibits or samples.</p> <p>1c. <u>DATE</u> - Enter date report was signed and forwarded to the screening or action point.</p> <p>2a. <u>TO (Screening Point)</u> - The originating point will complete name of the screening point activity (no acronyms when deficiency report will be sent across component lines), the activity address code (AAC), address including zip code of screening point where the report needs to be sent by the originator's activity. For those activities that do not have screening points, leave blank.</p> <p>2c. <u>DATE</u> - Enter the date the person finished processing the report at the screening point.</p> <p>3. <u>REPORT CONTROL NUMBER</u> - Number assigned to report when a numbering system is used. Those activities which are reporting quality deficiencies across component lines and are to comply with the DLA Regulation 4155-24 should reference the report control number as prescribed in the regulation.</p> <p>7a. <u>MANUFACTURER, CITY, STATE</u> - Name of the manufacturer, the maintenance contractor, or Government activity which last repaired or overhauled the deficient item. For motor vehicles or components thereof, enter name of manufacturer of the vehicle or component, as appropriate.</p> <p>7b. <u>MANUFACTURER'S CODE</u> - Code of the manufacturer as listed in cataloging Handbook H4-1 (Name to code), Federal Supply Code for Manufacturers (United States and Canada).</p> <p>7c. <u>SHIPPER, CITY, STATE</u> - When the shipper of an item is different from the manufacturer, also include the shipper's or supplier's name.</p> <p>9. <u>SERIAL, LOT, BATCH NO.</u> - Manufacturer's serial, lot, or batch number of deficient item as applicable.</p> <p>10. <u>CONTRACT, PURCHASE ORDER, REQUISITION, GOVERNMENT BILL OF LADING (GBL) NO.</u> - Enter these numbers or any other available transportation document number in lieu of the GBL. Such numbers appear on the container, purchase document and/or the item. It is extremely helpful if these items are furnished when the material was supplied by GSA.</p> <p>11. <u>ITEM</u> - Check the appropriate block; provide the date manufactured</p>	<p>and received in Block 12, if available.</p> <p>13. <u>OPERATING TIME AT FAILURE</u> - Time item had been in operation since new, overhauled, or repaired when the deficiency was discovered, citing the appropriate performance element (miles, cycles, hours, etc.).</p> <p>15c. <u>QUANTITY DEFICIENT</u> - Enter the quantity found deficient of those inspected.</p> <p>15d. <u>QUANTITY IN STOCK</u> - Enter the quantity of material from the same manufacturer remaining in stock.</p> <p>17. <u>UNIT COST</u> - Dollar value of deficient item when known. Not applicable on reporting vehicles to GSA.</p> <p>18. <u>ESTIMATED REPAIR COST</u> - Unit cost times number of units for replacement or estimated repair costs (including overhead) times number of units for correcting all the deficient items reported when it can readily be determined. Not applicable on reporting vehicles to GSA.</p> <p>19. <u>ITEM UNDER WARRANTY</u> - Check if item is known to be covered by contractor warranty. If yes provide expiration date.</p> <p>21. <u>ACTION/DISPOSITION</u> - A check in the appropriate block to indicate the action taken or requested. When an exhibit or sample is being held, indicate the number of days in the space provided. (An exhibit or sample shall be held for a minimum of 30 calendar days from date the report is transmitted to the action point. Reporting activities are reminded that the packaging, packing and shipping containers are to be held along with the exhibits to facilitate investigation.) When none of the items indicate the actions or disposition taken or requested, check "Other" and identify the nature of action taken or requested in item 22.</p> <p>23. <u>LOCATION OF DEFICIENT MATERIAL</u> - Address and location of deficient material.</p> <p>24a. <u>TO (Action Point)</u> - Name, in the clear address, including zip code of the action point to which the report is being submitted.</p> <p>24c. <u>DATE</u> - Enter the date the report was forwarded to an action point or the date the findings and recommendations were completed.</p> <p>28. <u>FINDINGS AND RECOMMENDATIONS OF INVESTIGATION</u> - Include the findings and recommendations for resolution of complaint.</p> <p>29. <u>ACTION TAKEN</u> - State the action taken to resolve the complaint.</p> <p>30. <u>RESULTS OF DEPOT SURVEILLANCE</u> - Show results of depot surveillance and planned action (i.e., replacement or repair by contractor, disposal, issue, etc.).</p>

Figure 5-6.-Sample Category II Quality Deficiency Report (CAT II QDR), Standard Form (SF) 368 (Back).

manufacturer, include the shipper's or supplier's name/city/state in block 7c.

Item 8. Manufacturer's Part Number. Self explanatory.

Item 9. Serial/Lot/Batch No. As applicable, enter the serial number, lot number, or batch number of the deficient material. Use item 22 if required.

Item 10. Enter the contract number in block 10a, the purchase order number in block 10b, the requisition number in block 10c, and the government bill of lading (GBL) number in block 10d.

Item 11. Item is New, Repaired, or Overhauled. Check the appropriate block to identify if the material is either new, repaired or overhauled.

Item 12. Date Manufactured, Repaired, or Overhauled. If the material is repaired or overhauled, enter the last repair or overhaul date.

Item 13. Enter operating time at failure (based on entry in block 12). Indicate the time material had been in service since new or since last repair, modification, or overhaul for rework material.

Item 14. Government Furnished Material. Government furnished material is any material that belongs to the government and is furnished to a contractor for some purpose. Check the appropriate block.

Item 15. Quantity. Quantity is a count of each individual item, disregarding unit of issue.

- a. Received. Enter the number of items received.
- b. Inspected. Enter the number of items inspected.
- c. Deficient. Enter the number of items that were determined to be deficient as a result of inspection.
- d. In Stock. Enter the number of items in stock, as applicable.

Item 16. Deficient Item Works On or With. Not applicable when reporting common/general type material received from supply but not installed or peculiar to a specific type of aircraft.

Item 17. Dollar Value of Deficient Items. Enter the dollar value of the material reported as being deficient, if known.

Item 18. Estimated Repair Cost. Enter the estimated cost and man-hours required to correct the discrepancy.

Item 19. Item Under Warranty. Check appropriate block in block 19a, and enter the expiration date of warranty in block 19b.

Item 20. Work Unit Code/Equipment Identification Code. Enter the most specific code available.

Item 21. Action or Disposition. Check one of the blocks to indicate the nature of the action taken or requested concerning the deficient material. If an exhibit is being held, indicate the number of days the exhibit will be held by completing the space provided (holding exhibit for XX days). If none of the blocks indicate the action or disposition taken or requested, check the other block and identify the nature of the action taken or requested in Item 22.

Item 22. Details. This item provides valuable information concerning the deficiency. For a fully comprehensive report, the following types of information should be entered in this item, if applicable and available:

- The requisition number under which the material was received.

- Describe how the safety of personnel or the activity mission is affected by the use of the defective item.

- Name of the activity that supplied the material.

- Date of receipt.

- Date of packaging.

- Explain what is wrong with the item or how it is different from an acceptable item to the best of the originator's ability. Explain how the item does not function with relating parts or assemblies, etc. Include specific violations of specifications, pertinent regulations, instructions, contracts, etc. Indicate if an exhibit is being held.

- How deficiency was detected or confirmed; i.e., visual inspection, functional operation, etc.

- Include the number of previous known deficiencies concerning these items.

- Where the deficiency condition was discovered; that is, receipt inspection, during cyclical inspection, during maintenance, special inspection directed by inventory control point, etc.

- Include storage and/or handling information when it appears that these factors have contributed to the deficiency being reported.

- List the supporting documents included whenever possible. When photographs are taken, a 12-inch or other ruler should be used and a scale placed alongside the object, which should appear in each photograph. Measurements should also be shown on sketches.

Section II. Section II is to be completed by the action and support point, as applicable.

Item 23. Location of Deficient Material. Address and location where the exhibit is being held.

Item 24. To (Action Point). A focal point, identified within each component of the Armed Services, responsible for the resolution of a reported product quality deficiency, including necessary collaboration with support points. The screening point will enter the name and address of the action point to which the report is being submitted in block 24a; the action point will enter the name, duty phone, and signature of the individual who may serve as the action point's point of contact in block 24b; and the date the report was signed by the individual identified in block 24b is entered in block 24c.

Item 25. To (Support Point). An activity, for example, Naval Aviation Depot Operations Center (NAVAVNDEPOTOPSCEN), commercial rework activity, procurement contracting office, Naval Aviation Depot (NAVAVNDEPOT), Naval Plant Representative Office (NAVPRO), or local engineering support office, that assists the action point, when requested, by conducting and providing results of a special analysis or investigation pertinent to correction and prevention of a reported deficiency is entered in block 25a (if more than one support point is

involved, items 26 and 27 should be used). The name, telephone number, and signature of the individual who may serve as the support point's point of contact is entered in block 25b, and the date the report was signed by the individual identified in block 25b is entered in block 25c.

Items 26a and 27a. These blocks are used to address the reply from the action point to additional screening point (s).

Items 26b and 27b. Name, telephone number, and signature: The additional support point(s) will enter the name(s), duty phone number(s), and signature of the individual(s) who may serve as the support point's point of contact.

Items 26c and 27c. Date: Enter date(s) the report was signed by the individual(s) in block 26b and 27b.

Item 28. Findings and Recommendations of Investigation:. The final reply will include the following:

- The findings of the investigation conducted.

- Disposition instructions for deficient material, when appropriate.

- Need for alert notifications or field fix bulletins, if applicable.

- A comment regarding allowance for credit or no credit for the material reported as deficient, if applicable.

- When appropriate, provide other screening points of known military users with the results of the investigation and the corrective actions.

Item 29. Action Taken: Explain what corrective action was taken to preclude recurrence.

Item 30. Results of Depot Surveillance: Show results of depot surveillance and planned action; for example, replacement or repair by contractor, disposal, or issue.

AIRCRAFT DISCREPANCY REPORT (ADR)

This report provides a direct method for reporting minor, major and/or critical

discrepancies in quality assurance procedures to aircraft manufacturers, NAVAVNDEPOTs, and other activities performing maintenance on aircraft. This method of reporting is not used in lieu of the NAMDRP; it compliments the program. It simply highlights areas in immediate need of attention to ensure a more acceptable standard of quality in aircraft maintenance and rework procedures.

Effective use of SF 368 in initiating corrective or preventative action is dependent upon a clear description of discrepancies and corrective actions taken to identify the problem and the parts involved to permit objective analysis of each discrepancy. (Figures 5-7 and 5-8 show a sample ADR using SF 368).

Equipment shortages, ferry or shipping damages, deterioration during pool storage, or

PRODUCT QUALITY DEFICIENCY REPORT				<input type="checkbox"/> CATEGORY I <input type="checkbox"/> CATEGORY II	
1a. FROM (Originator) HSL THREE TWO NAS NORFOLK, VA 23511-5593			2a. TO (Screening Point) NAVAL AVIATION DEPOT OPERATIONS CENTER (NADOC 410) PATUXENT RIVER, MD 20670-5449		
1b. NAME, TELEPHONE NO. AND SIGNATURE CDR D. POTTER, AV 356-4692, COM. (301) 463-4692		1c. DATE 29 Jan 87	2b. NAME, TELEPHONE NO. AND SIGNATURE JACK JONES, AV 356-4692, COM., (301) 463-4692		2c. DATE
3. REPORT CONTROL NO. V68628-87-0003	4. DATE DEFICIENCY DISCOVERED 21 Jan 87	5. NATIONAL STOCK NUMBER (NSN) N/A		6. NOMENCLATURE AIRCRAFT DISCREPANCY REPORT	
7a. MANUFACTURE/CITY/STATE HAYES INTERNATIONAL/DOTHAN/AL	7b. MFRS. CODE N/A	7c. SHIPPER/CITY/STATE N/A		8. MFRS. PART NO. N/A	
9. SERIAL/LOT/BATCH NO. N/A	10a. CONTRACT NO. N64107-86-C-9006	10b. PURCHASE ORDER NO. N/A	10c. REQUISITION NO. N/A	10d. GBL NO. N/A	
11. ITEM <input type="checkbox"/> NEW <input checked="" type="checkbox"/> REPAIRED/ OVERHAULED	12. DATE RECD., MFRD, RE- PAIRED, OR OVERHAULED 20 JAN 87	13. OPERATING TIME AT FAILURE N/A		14. GOVERNMENT FURNISHED MATERIAL <input type="checkbox"/> YES <input type="checkbox"/> NO N/A	
15. QUANTITY	a. RECEIVED N/A	b. INSPECTED N/A	c. DEFICIENT N/A		d. IN STOCK N/A
16. DEFICIENT ITEM WORKS ON/WITH	a. END ITEM (AIRCRAFT, MOWER, ETC.)	(1) TYPE/MODEL/SERIES SH-2F			(2) SERIAL NO. 152191
	b. NEXT HIGHER ASSEMBLY	(1) NATIONAL STOCK NO. (NSN) N/A	(2) NOMENCLATURE N/A	(3) PART NO. N/A	(4) SERIAL NO. N/A
17. UNIT COST \$ N/A	18. ESTIMATED REPAIR COST \$ N/A	19a. ITEM UNDER WARRANTY <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> UN- KNOWN		19b. EXPIRATION DATE	
20. WORK UNIT CODE/EIC (NAVY AND AIR FORCE ONLY.) N/A					
21. ACTION/DISPOSITION <input type="checkbox"/> HOLDING EXHIBIT FOR _____ DAYS <input type="checkbox"/> INVESTIGATION <input type="checkbox"/> TO STOCK <input type="checkbox"/> OF <input type="checkbox"/> REPAIRED <input type="checkbox"/> IN ITEM 22					
22. DETAILS (Describe, to best ability, what is wrong, how and why, circumstances prior to difficulty, description of difficulty, cause, action taken, including disposition, recommendations. Attach copies of supporting documents. Continue on separate sheet if necessary.) INITIAL ACCEPTANCE OF AIRCRAFT 1. CRITICAL: HSL-34 CAT I QDR MSG 211750Z JAN 87 REPORT CONTROL NUMBER V68628-87-0002 REPORTED AZIMUTH LOWER LINK (WUC) 14916 IMPROPERLY TORQUED RE TORQUED. 4.3 MAN-HOURS 2. MAJOR: SPEED #1 DECREASED GEARBOX (SDGB) (WUC 26221) CORRODED BEYOND LIMITS AROUND TOP CHIP DETECTOR MOUNT BOX. CHANGED SDGB. 71 MAN-HOURS. 3. MINOR: NO WEIGHT AND BALANCE ENTRY FOR AFC's 243, 223, 235, 236, and 239. ENTRIES MADE. 1.2 MAN-HOURS 23. LOCATION OF DEFICIENT MATERIAL N/A					
24a. TO (Action Point) DCASPRO HAYES HAYES INTERNATIONAL CORP. DOTHAN, AL 36301		25a. TO (Support Point) (Use Items 26 and 27 if more than one) NAVAL AVIATION DEPOT (Q&RA) NAS PENSACOLA, FL 32508			
24b. NAME, TELEPHONE NO. AND SIGNATURE		24c. DATE	25b. NAME, TELEPHONE NO. AND SIGNATURE		25c. DATE
26a. TO (Support Point) HELICOPTER SEA CONTROL WING ONE, NAS NORFOLK, VA 23511			27a. TO (Support Point) COMNAVAIRLANT (Code 52) NAS NORFOLK, VA 23511 5188		
26b. NAME, TELEPHONE NO. AND SIGNATURE		26c. DATE	27b. NAME, TELEPHONE NO. AND SIGNATURE		27c. DATE

NSN 7540-00-133-5541

STANDARD FORM 368 (REV. 10-85)

Figure 5-7.-Sample Aircraft Discrepancy Report (ADR), Standard Form (SF) 368 (Front).

28. FINDINGS AND RECOMMENDATIONS OF INVESTIGATION. (Explain in detail. Continue on separate sheet of paper, if necessary.)	
SAMPLE	
29. ACTION TAKEN	
30. RESULTS OF DEPOT SURVEILLANCE	
<p style="text-align: center; font-weight: bold;">INSTRUCTIONS</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>1a. <u>FROM (Originator)</u> - Complete name of activity (no acronyms when sending deficiency report across component lines), activity address code (ACC), address including zip code of the activity originating the report.</p> <p>1b. <u>NAME, TELEPHONE NO., AND SIGNATURE</u> - Provide name, telephone no., (include all available telephone numbers; FTS, Autovon, and commercial) and signature of an individual who can serve as a contact for questions regarding the report and/or to request exhibits or samples.</p> <p>1c. <u>DATE</u> - Enter date report was signed and forwarded to the screening or action point.</p> <p>2a. <u>TO (Screening Point)</u> - The originating point will complete name of the screening point activity (no acronyms when deficiency report will be sent across component lines), the activity address code (AAC), address including zip code of screening point where the report needs to be sent by the originator's activity. For those activities that do not have screening points, leave blank.</p> <p>2c. <u>DATE</u> - Enter the date the person finished processing the report at the screening point.</p> <p>3. <u>REPORT CONTROL NUMBER</u> - Number assigned to report when a numbering system is used. Those activities which are reporting quality deficiencies across component lines and are to comply with the DLA Regulation 4155 24 should reference the report control number as prescribed in the regulation.</p> <p>7a. <u>MANUFACTURER/CITY/STATE</u> - Name of the manufacturer, the maintenance contractor, or Government activity which last repaired or overhauled the deficient item. For motor vehicles or components thereof, enter name of manufacturer of the vehicle or component, as appropriate.</p> <p>7b. <u>MANUFACTURER'S CODE</u> - Code of the manufacturer as listed in cataloging Handbook H4.1 (Name to code), Federal Supply Code for Manufacturers (United States and Canada).</p> <p>7c. <u>SHIPPER/CITY/STATE</u> - When the shipper of an item is different from the manufacturer, also include the shipper's or supplier's name.</p> <p>9. <u>SERIAL/LOT/BATCH NO.</u> - Manufacturer's serial, lot, or batch number of deficient item as applicable.</p> <p>10. <u>CONTRACT; PURCHASE ORDER; REQUISITION; GOVERNMENT BILL OF LADING (GBL) NO.</u> - Enter these numbers or any other available transportation document number in lieu of the GBL. Such numbers appear on the container, purchase document and/or the item. It is extremely helpful if these items are furnished when the material was supplied by GSA.</p> <p>11. <u>ITEM</u> - Check the appropriate block; provide the dates manufactured</p> </div> <div style="width: 48%;"> <p>and received in Block 12, if available.</p> <p>13. <u>OPERATING TIME AT FAILURE</u> - Time item had been in operation since new, overhauled, or repaired when the deficiency was discovered, citing the appropriate performance element (miles, cycles, hours, etc.).</p> <p>15c. <u>QUANTITY DEFICIENT</u> - Enter the quantity found deficient of those inspected.</p> <p>15d. <u>QUANTITY IN STOCK</u> - Enter the quantity of material from the same manufacturer remaining in stock.</p> <p>17. <u>UNIT COST</u> - Dollar value of deficient item when known. Not applicable on reporting vehicles to GSA.</p> <p>18. <u>ESTIMATED REPAIR COST</u> - Unit cost times number of units for replacement or estimated repair costs (including overhead) times number of units for correcting all the deficient items reported when it can readily be determined. Not applicable on reporting vehicles to GSA.</p> <p>19. <u>ITEM UNDER WARRANTY</u> - Check if item is known to be covered by contractor warranty. If yes provide expiration date.</p> <p>21. <u>ACTION/DISPOSITION</u> - A check in the appropriate block to indicate the action taken or requested. When an exhibit or sample is being held, indicate the number of days in the space provided. (An exhibit or sample shall be held for a minimum of 30 calendar days from date the report is transmitted to the action point. Reporting activities are reminded that the packaging, packing and shipping containers are to be held along with the exhibits to facilitate investigation.) When none of the items indicate the actions or disposition taken or requested, check "Other" and identify the nature of action taken or requested in item 22.</p> <p>23. <u>LOCATION OF DEFICIENT MATERIAL</u> - Address and location of deficient material.</p> <p>24a. <u>TO (Action Point)</u> - Name, in the clear address, including zip code of the action point to which the report is being submitted.</p> <p>24c. <u>DATE</u> - Enter the date the report was forwarded to an action point or the date the findings and recommendations were completed.</p> <p>28. <u>FINDINGS AND RECOMMENDATIONS OF INVESTIGATION</u> - Include the findings and recommendations for resolution of complaint.</p> <p>29. <u>ACTION TAKEN</u> - State the action taken to resolve the complaint.</p> <p>30. <u>RESULTS OF DEPOT SURVEILLANCE</u> - Show results of depot surveillance and planned action (i.e., replacement or repair by contractor, disposal, issue, etc.)</p> </div> </div>	
*U.S. GPO: 1986-496-360	STANDARD FORM 368 BACK (REV. 10-85)

Figure 5-8.-Sample Aircraft Discrepancy Report (ADR), Standard Form (SF) 368 (Back).

other discrepancies that do not directly pertain to the quality of rework or manufacture are not reported by the reporting custodian. ADRs should not include discrepancies that are not a part of the negotiated work package of rework or specification.

An acceptance inspection is performed as soon as possible after the aircraft is delivered and prior to maintenance (other than required to complete the acceptance inspection) or further flight. Only those discrepancies noted by the pilot/ferry crew and those found during the acceptance inspection are reported.

Discrepancies discovered during the initial acceptance inspection of aircraft received from a contractor as newly manufactured and those reworked by a Navy, commercial, or interservice activity are reported as an ADR on the SF 368. If no deficiencies are found during the acceptance inspection, a negative report will be submitted stating, "No discrepancies noted. Reply not required."

The cognizant naval plant representative officer or other administrating contract officer/NAVAVNDEPOT encloses sufficient copies of the SF 368 with envelopes appropriately pre-addressed in each aircraft logbook for delivery with the aircraft. For the most part, completion of the SF 368 is self-explanatory. A report control number is assigned to each report. Each report control number commences with 0001 at the beginning of each calendar year and progresses consecutively throughout the year.

A report is required on each newly reworked aircraft received. It should be completed as soon as possible after completion of the aircraft acceptance inspection, but in no case prepared later than 30 days after receipt of the aircraft.

The discrepancies that are entered on the report are usually furnished to QA by personnel in the production divisions. If the space for reporting discrepancies on one form is insufficient, a separate sheet of paper is issued.

The report is used to report critical, major, and minor discrepancies found by the using activity on aircraft received from a contractor or a rework activity as well as to evaluate

the rework activity's quality control system. Critical, major and minor discrepancies are defined as follows:

Defect, Critical. A defect that constitutes a hazardous or unsafe condition, thus making the aircraft unsafe for flight or endangering operating personnel.

Defect, Major. A defect, other than critical that could result in failure or materially reduce the usability of the unit or part for its intended purpose.

Defect, Minor. A defect that is not likely to reduce materially the usability of the unit or part for its intended purpose.

After completion, the original report is forwarded to the aircraft manufacturer (in case of new aircraft) or to the NAVAVNDEPOT/commercial rework activities.

A copy of each report is forwarded to the controlling custodian, the cognizant commander, fleet air functional wing, and the cognizant NAVAVNDEPOT. For newly manufactured aircraft, a copy is forwarded to the contract administration office (CAO) and to the Commander, Naval Air Systems Command. For aircraft reworked at NAVAVNDEPOT, a copy is forwarded to Naval Aviation Depot Operations Center (NAVAVNDEPOTOPSCEN). For aircraft commercially reworked, a copy is forwarded to CAO and to Naval Aviation Depot Operations Center (NAVAVNDEPOTOPSCEN).

TECHNICAL PUBLICATION DEFICIENCY REPORT (TPDR)

Occasionally, the AZ working as publications librarian will discover deficiencies in publications. More often, deficiencies will be discovered by personnel who are or have been using the technical publications. In such cases, the technical librarian should report the deficiency in accordance with the information discussed below.

This report provides a simplified procedure for reporting technical publication safety hazards and routine deficiencies. There are two different

categories for reporting technical publication deficiencies that are explained below:

CAT I TPDR. This report is submitted by using the CAT I TPDR message format (fig. 5-9) when a technical publication deficiency is detected

that, if not corrected, could result in death or injury to personnel or damage to or loss of aircraft, equipment, or facilities. The importance of submitting a message as soon as possible for these types of deficiencies is strongly emphasized.

FROM: USS MIDWAY
TO: NAVAIRTECHSERVFAC PHILADELPHIA PA
NAVWPNCEN CHINA LAKE CA
AIG FOUR TWO THREE
INFO: COMFAIRWESTPAC ATSUGI JA
COMLATWINGPAC LEMOORE CA
UNCLAS//N04790//
SUBJ: CAT I TECHNICAL PUBLICATION DEFICIENCY REPORT
MSGID/GENADMIN/AIMD//
REF/A/DOC/OPNAV/01JAN89//
REF/B/DOC/NAVAIR/15FEB83//
NARR/REF A IS OPNAVINST 4790.2E, REF B IS NAVAIR 13-1-6.2 BASIC DTD 15 FEB 83/RAC 69 DTD 1 FEB 85//
RMKS/1. USS MIDWAY (CV-41) 03341
2. NAVWPNCEN CHINA LAKE CA
3. R03341-88-0017
4. 8187/USS MIDWAY
5. 0513-LP-000-2150
6. THROUGH 21. N/A
22. A. NA 13-1-6.2
B. NES-12 PARACHUTE ASSY
C. 15 FEB 1983
D. RAC 69 DTD 1 FEB 1985
E. N/A
F. 15-12c
G. 15-18a-14
H. 15-12c
I. THROUGH K. N/A
L. ASSEMBLY INDUCTED INTO AIMD FOR SCHEDULED REPACK AND USE AS A TRAINING AID DURING A LECTURE GIVEN BY AIMD PARALOFT PERSONNEL TO CVW-5 A-7E PILOTS DURING A SAFETY STAND-DOWN. DURING EXPLANATION AND ACTIVATION OF THE FOUR-LINE RELEASE SYSTEM, THE "DAISY CHAIN" SECURING LINES 1 AND 2 FAILED TO UNCHAIN. INVESTIGATION REVEALED THAT THE "FF" THREAD ENTERS AND EXITS THE FLUTE TOO CLOSELY, THE INDIVIDUAL THREADS OF THE FLUTE WEBBING WILL BREAK INSTEAD OF THE "FF" THREAD. IF THE LAST LOOP OF THE "DAISY CHAIN" IS NOT PULLED INTO THE FLUTE TO POSITION IT DIRECTLY UNDER THE ENTRY AND EXIT POINTS OF THE "FF" THREAD IN THE FLUTE, THE THREAD WILL BREAK BUT COULD BE PULLED THROUGH THE FLUTE WEBBING AND BE OF SUFFICIENT LENGTH TO BECOME ENTANGLED IN THE "DAISY CHAIN". THIS COULD CAUSE A "LOCKING" OF THE REMAINING "DAISY CHAIN" AS IT DID IN THIS CASE. IF THE "FF" THREAD DOES NOT PIERCE THE LANYARD THROUGH THE CENTER, BUT ONLY CATCHES A PORTION OF THE OUTER CASING, IT IS POSSIBLE TO RUPTURE THE OUTER CASING OF THE LANYARD AND FAIL TO BREAK THE "FF" THREAD TACKING. PHOTOGRAPHS ARE AVAILABLE UPON REQUEST.
M. RECOMMENDATIONS:
(1) RECOMMEND FOLLOWING WARNING BE INSERTED BETWEEN STEPS 13 AND 14 OF PARA. 15-18A OF REF B: "WARNING" ENSURE THAT ENTRY AND EXIT POINTS OF THE "FF" THREAD ARE AT LEAST 1/4 INCH APART. ENSURE THAT THE LAST LOOP OF THE "DAISY CHAIN" IS PULLED FAR ENOUGH INTO THE FLUTE TO POSITION IT DIRECTLY BENEATH THE ENTRY AND EXIT POINTS OF THE "FF" THREAD.
(2) RECOMMEND THAT FIG 15-12C BE CHANGED TO SHOW EMPHASIS ON SEPARATION OF ENTRY AND EXIT POINTS OF THE "FF" THREAD AND POSITIONING OF THE LAST LOOP.
(3) RECOMMEND THAT ONE TURN OF WAXED NYLON "E" THREAD, SINGLE, BE USED TO SECURE THE LAST LOOP - VICE "FF" THREAD.
(4) RECOMMEND THAT ALL ASSEMBLIES HAVING ACC 383 INCORPORATED BE CHANGED TO REFLECT THE ABOVE RECOMMENDATIONS.
N. PRCS BEALL, AV/EG BRANCH SUPERVISOR, DEPLOYED//

Figure 5-9. Sample Category I (CAT I) Technical Publication Deficiency Report Message.

CAT II TPDR. This report is submitted using the Technical Publication Deficiency Report, OPNAV 4790/66 (figs. 5-10 and 5-11), when technical publication deficiencies include technical errors, wrong measurement values, incorrect use of support equipment, wrong sequence of adjustments, part number errors or omissions.

Technical publications include maintenance requirements cards (MRCs), checklists, work unit

code (WUC) manuals, shop process cards, maintenance instruction manuals (MIMs), weapons and stores loading manuals, conventional and nuclear weapon checklists, stores reliability cards, illustrated parts breakdowns (IPBs), technical directives (TDs), and technical manuals. The TPDR is not applicable when reporting deficiencies in instructions or notices. Deficiencies in NATOPS manuals should be

TECHNICAL PUBLICATIONS DEFICIENCY REPORT						
NAVAIRTECHSERVFAC USE ONLY		a. QA SEQUENCE NO.		b. DATA MANAGER CODE		c. CFA/PRIME CODE
1. REPORTING ACTIVITY		2. REPORT CONTROL NUMBER				
		3. REPORT DATE (YR/MO/DA)		4. WEAPON SYSTEM APPLICATION		5. DISCREPANCY CODE
6. TECHNICAL MANUAL NUMBER			7. TECH. MAN. DATE		8. CHG. NO. & DATE	9. W/P NO.
10. SEC/PG NO.	11. PARA NO.	12. FIG/TBL NO.	13. CART. NO.	14. CART. DATE	15. FRAME NO.	
16. DEFICIENCY						
SAMPLE						
17. RECOMMENDATIONS						
18. IMPACT						
19. MEDIA EVALUATED: (Only one check block is required per item.)						
<input type="checkbox"/> FILM <input type="checkbox"/> PAPER <input type="checkbox"/> PAPER & FILM						
REMARKS						
20. REPORTED BY (Name, rank/rate)			AUTOVON		21. RELEASED BY (Name, rank/rate)	
					AUTOVON	

OPNAV 4790/66 (REV. 5-88)

S/N 0107-LF-002-4400

INSTRUCTIONS ON REVERSE SIDE

Figure 5-10.-Sample Category II (CAT II) Technical Publication Deficiency Report (OPNAV 4790/66) (Front).

reported in accordance with the latest edition of NAVAIR Instruction 3510.1 or OPNAV Instruction 3500.22.

All activities must submit CAT I TPDR priority messages within 24 hours of discovery of a deficiency. The action addressee for the message report will be the cognizant field activity (CFA) of the equipment, if known, and Naval Air Technical Services Facility (NAVAIRTECHSERVFAC), Code 40.

All activities must submit CAT II routine technical publication deficiencies using OPNAV 4790/66. The original and one copy are sent to NAVAIRTECHSERVFAC, Code 40, and one copy is sent to the CFA of the equipment, if known. A copy is retained by the originating activity for record purposes.

NAVAIRTECHSERVFAC will serve as the central manager for all NAVAIRSYSCOM

INSTRUCTIONS	
1. FROM: (Reporting Activity.) The Reporting Activity will enter complete mailing address.	the format described in Item 3.
2. REPORT CONTROL NUMBER: Enter the Report Control Number (RCN).	8. CHANGE NUMBER AND DATE: This appears directly under the basic date of the manual on which the deficiency is located. Present date in same format as item 3.
3. REPORT DATE: This identifies the year, month, and the day that the report was prepared, and consists of six digits. The date 15 June 1989 would be presented in the following format: 890615. The first two digits indicating the year (89), the second two digits indicate the month (06), and the remaining two digits specify the day (15).	9. WORK PACKAGE NUMBER: Enter the number in which the deficiency is located.
4. WEAPON SYSTEM APPLICATION: Give the specific weapon system against which the deficiency is detected.	10. SECTION/PAGE NUMBER: Enter the number of the page of the technical manual on which the deficiency is located.
5. DISCREPANCY CODE: This is a numeric code used to describe the type of discrepancy found in the technical publication being reported deficient. A complete list of codes are as follows:	11. PARAGRAPH NUMBER: Enter the specific number in which the deficiency is located.
1. Typographical Errors 2. Incorrect Procedures 3. Schematic Errors 4. Part Number Errors 5. SM&R Code Errors 6. Illustration Errors 7. Incorrect Values/Tolerances 8. Incorrect References 9. Safety (Cautions & Warnings) 10. Indexing problems 11. Illegible 12. Print Error (Head to Toe or information cut off) 13. Missing/Improperly Collated Pages 14. Film Density 15. Cartridge Loading (Wrong Film, Cartridge Indexing, No Film, and Inverted Loading) 16. Other	12. FIGURE/TABLE: Enter when an illustration or table is involved in the deficiency.
	13. CARTRIDGE NUMBER: Enter the number being reported deficient.
	14. CARTRIDGE DATE: The date shall be presented in the format described in Item 3.
	15. FRAME NUMBER: Enter the frame number of the cartridge on which the deficiency is located.
	16. DEFICIENCY: Be very specific. Provide complete information regarding discrepancy, including drawings, schematics, sketches, and references. If necessary, attach copies.
	17. RECOMMENDATION: Be very specific. Provide complete information regarding the corrective action required, including drawings, schematics, sketches, and references. If necessary, attach copies.
	18. IMPACT: Enter concise statement of the impact of this discrepancy on work load/operational readiness.
	19. MEDIA EVALUATED: Check applicable block for media that is being reported deficient.
	20. REPORTED BY: Give name, rate/rank, and autovon number of person reporting deficiency to ensure receipt by reporter of notification of action taken.
	21. RELEASED BY: Name, rank/rate, title, and autovon number of releasing official.
MAIL ORIGINAL AND 1 COPY TO: Commanding Officer, Naval Air Technical Services Facility, Quality Assurance Dept (40) 700 Robbins Ave., Phila., PA 19111-5097 COPY TO COGNIZANT FIELD ACTIVITY	

OPNAV 4790/66 (REV 5-88) (BACK)

Figure 5-11.-Sample Category II (CAT II) Technical Publication Deficiency Report (OPNAV 4790/66) (Back).

technical publications and will ensure the following:

- Maintain a record of all technical manual deficiencies.
- Acknowledge receipt of each TPDR to the originator and assign CFA action for TPDRs as required. This will be accomplished within 1 working day after receipt of CAT I TPDRs, and within 10 working days after receipt of CAT II TPDRs.
- Coordinate action with CFA and contractor to ensure correction of technical publications.
- Follow-up on each TPDR to ensure corrective action is accomplished.
- Provide TPDR status as required to the ACC/TYCOM.

When the TPDR has been completed, it should be passed on to the librarian's supervisor. The report receives a preliminary review by the supervisor, who, in turn, forwards it into the proper channels for further processing. Further processing normally involves additional review and checking, signing by the quality assurance officer or designated representative, and mailing.

The file copy retained by the librarian provides a means of checking reissues and changes. When reissues or changes to publications, in which discrepancies have been reported, are received in the library, the librarian should check to see if all discrepancies reported by the activity have been corrected. When a reissue contains errors or omissions previously reported, they should be reported again.

A simple method that may be used for checking for outstanding discrepancies requires each publication reported on to be flagged with a colored marker or otherwise identified in a conspicuous place on the front cover. Whenever a flagged or marked publication is replaced by a reissue, it is a simple matter to pull all the TPDR copies pertaining to that publication and check the new issue for the same errors. If all are not correct, new report copies should replace the old ones in the file. In this case, the flag should be transferred to the new basic publication.

DATA ANALYSIS

To obtain more efficient use of information collected by the maintenance data system (MDS), and to increase the effectiveness of the quality assurance program, a qualified data analyst is assigned to the QA/A division. The data analyst must be a senior petty officer formally trained in MDS procedures, data processing, and statistical analysis.

As an AZ3 or AZ2, you will not normally be assigned the duty of data analyst; however, depending on the size of the activity, you might be assigned to assist in the data analyst responsibilities. You will need to have a working knowledge of the responsibilities assigned to the analyst (which were discussed in chapter 1) and become familiar with the MDS reports used by the data analyst to examine and extract important data, which may significantly impact the maintenance effort of your command.

ANALYSIS TECHNIQUES

Analysis techniques include the extraction, examination, and presentation of pertinent data. The resulting analysis products will assist management in attaining effective and economical use of personnel and material resources. The MDS is designed to accumulate factual data pertaining to all phases of maintenance. This data is made available to management in the form of standard MDS reports. The function of analysis is to examine the data contained in these reports and determine what affect the conditions indicated may have on the maintenance effort. Analysis will show favorable and unfavorable conditions in the maintenance plan. The MDS will be of little value if its data is not used to the fullest extent.

Initiation of Analysis

The requirements for analysis may come from various sources and apply to a wide range of maintenance subjects. Analysis may be initiated to provide an answer to a specific problem, or to study selected areas of maintenance, for example, personnel utilization and productivity of work centers. The requirement for analysis should be the result of a "need to know" situation imposed by management. An analysis based on clear, concise requirements is more likely to be meaningful and useful to the maintenance manager than one based on generalities.

Data Selection

Once the subject of the analysis has been identified, the analyst must determine what data will be needed to fulfill the requirement. No standard rules can be applied to this phase of analysis. The analyst must choose wisely, ensuring all facts that have a bearing on the subject are included in the analysis. The analyst must also know which report, or combination of reports, will best provide the needed data.

Data Extraction

The extraction of data is usually a mechanical process; certain columns or lines of the report are screened to identify and select the desired data. Selected data are transposed to some type of work sheet to aid in subsequent steps of the analysis. Design of the work sheet should be simple, allow posting of extracted data in a methodical sequence, and provide space for the computation of totals and subtotals as needed.

Translation of Data

The major portion of the extracted data consists of coded entries, which must be translated into meaningful terms before being analyzed. The design of the work sheet should incorporate translation provisions; for example, columnar headings can contain both coded and descriptive information.

Examination of Data

This process involves the detailed study or examination of all of the data. There is no restriction as to who may do an analysis. In many instances it is desirable that an analysis be completed by a person technically qualified in the subject, although this is not always possible. Identical results may often be obtained through teamwork. For example, personnel assigned to QA/A may accumulate the required data, call in a representative from a work center to examine the data, and jointly prepare a report pertinent to the analysis. Regardless of who accomplished the examination, the intent of the detailed study of the data is the same; that is, (1) to determine if a problem actually exists, (2) to identify the factors contributing to the problem, (3) to list possible conclusions, and (4) to suggest possible alternative courses of action.

SUBMISSION OF SOURCE DOCUMENTS TO THE DATA SERVICE FACILITY

Two copies of the document control form (DCF) (fig. 5-12) are prepared each time the reporting activity submits source documents to the data services facility (DSF).

The documents to be submitted are separated, grouped, and counted. The submitting activity enters, in the appropriate line under Forms Count column 1, the number of documents submitted of that category. The DSF will enter the Julian date and time received, signature, and verify the number of documents by entering their count of the document in the Forms Count column 2,

If, during DSF processing, a document is found to be illegible or otherwise cannot be entered, it is returned to the submitting activity for correction. The questionable data elements are circled in red by the DSF. A total of these rejected documents are entered in the forms reject column. Rejected or late documents submitted after the end of an accounting period must be submitted with a separate document control form (DCF). This data will be processed with the next accounting period data. NALCOMIS is a dedicated automatic data processing (ADP) system and precludes the use of DCFs. Refer to the *NALCOMLS User's Manual* for processing requirements.

LOCAL DATA BASE CORRECTION PROCEDURES

To ensure that your Maintenance Data System (MDS) reports reflect accurate information, you will need to make corrections to MDS source documents that are in error. To discuss every correction procedure for MDS source documents in this chapter would be impossible, but we will discuss the basic correction procedures. For more information concerning local data base correction procedures, you should refer to the latest edition of OPNAVINST 4790.2. Those activities using NALCOMIS refer to the *NALCOMIS User's Manual* for specific details of local data base correction procedures.

Reporting activities will submit source documents daily to their DSF for processing. The DSF will enter data from source documents and produce daily audit reports (DARs). If problems are encountered during the data entry, the DSF circles the data element in red that cannot be

entered; for example, blanks, excessive characters, or illegible entries. The source document is then returned to the submitting activity for correction and resubmission. To the maximum extent possible, local inputs and data base errors should be corrected daily, as they are identified.

Data elements on the record part I or part II of the DAR that are found to be in error will be lined out with a single red line. The correct data will be handscripted immediately above the lined

out entry and "C" entered under the Correction Code (CC) column on the far right side of the record to be corrected. If the data to be corrected is in the VIDS/MAF A-Z record, "C" will be entered immediately to the left of the letter prefix of the VID/MAF record requiring correction.

If a whole record/source document is to be deleted, a "D" will be recorded directly under the CC column on the far right side of the record or immediately to the left of the letter prefix in the

OPNAVINST 4790.20

DOCUMENT CONTROL FORM				2. JULIAN DATE			
1. ORGANIZATION				3. AWAY FROM HOME CODE			
				4. SUPPLY ORGANIZATION CODE			
CARDS/FORMS BY TYPE	FORMS COUNT		FORM REJECT	CARDS/FORMS BY TYPE	FORMS COUNT		FORM REJECT
	1	2			1	2	
5. MDR FORMS				9. LOCAL CONTROL			
a. SUPPORT ACTION FORM				a. DAILY AUDIT PART I			
b. VIDS/MAF (COPY 1)				b. DAILY AUDIT PART II			
c. SAF REPLENISHMENT				c. DAILY AUDIT PART III			
d. VIDS/MAF (CLOSEOUT)							
e. METER CARD (GREEN COPY)							
f. METER CARD (GREEN COPY) (CLOSEOUT)							
6. TRAINING DEVICE FORMS							
a. UTILIZATION				10. COMMENTS / LOCAL USE			
7. FLIGHT DATA FORMS							
a. NAVAL AIRCRAFT FLIGHT RECORD							
8. MATERIAL REPORTING							
a. VIDS/MAF (COPY 2)							
b. DD 1348				11. JULIAN DATE / TIME RECEIVED			
				12. RECEIVED BY (Signature)			

OPNAV 4790/45 (REV 2-86) PREVIOUS EDITIONS MAY BE USED UNTIL SUPPLY IS EXHAUSTED S/N0 107-11-047-9229

Figure 5-12.-Document Control Form (DCF) (OPNAV 4790/45).

case of the VIDS/MAF copy 1 or METER card (green copy) A-Z records.

MAINTENANCE DATA SYSTEM (MDS) REPORTS

Within the Maintenance Data System (MDS), large amounts of readiness and maintenance data are generated at the local level. This data consists of coded elements that are summarized in daily and monthly reports. The description, content and use of the MDS reports prepared by the DSF and used by the data analyst (at the organizational level) are discussed in this section of the TRAMAN. NAVFLIRS reports were previously discussed in chapter 4 and will not be discussed in this chapter. Those activities using NALCOMIS should refer to *NALCOMIS User's Manual* for information concerning the Maintenance Data System (MDS).

VIDS/MAF COPY 1 DAILY AUDIT REPORT (DAR)

This report is prepared from data submitted on copy 1 of the VIDS/MAF and is printed in three parts. Part I contains data that has no errors and is considered valid. Part II contains records submitted during the current reporting period which contain errors that have not been corrected.

Part III will be printed if there are any correction/deletion records which cannot be applied to the local data base due to erroneous data. The work center supervisor should verify the daily audit report (fig. 5-13) to ensure that all data contained on the work centers VIDS/MAFs have been correctly key punched by the DSF.

MONTHLY PRODUCTION REPORT (MDR-2)

This report lists all maintenance actions in work center sequence including technical directive compliance and data entered in the (H-Z) Failed/Required Material block of the VIDS/MAF (fig. 5-14). It also provides the work center supervisor with statistical data pertaining to the work center; for example, man-hours expended to repair a subsystem.

JOB CONTROL NUMBER (JCN) CONSOLIDATION REPORT (MDR-3)

This report is a consolidated list, by organization, of all maintenance and technical directive compliance actions submitted during the month by the parent organization and the supporting activity. This report is prepared from data submitted on the VIDS/MAF copy 1 for all transaction codes except 00, 02, and 03 (fig. 5-15).

VIDS/MAF COPY 2										DAILY AUDIT REPORT PART I - VALID DATA										30 JAN 89		
WUC	TEC	MFGR	ORG	NSNPN	UI	QTY	COG	P	C	C	DAT	ORG	DAY	SER	SUF	SUP	ORG	AWAY	DOC	REC	C	
1	8	12	27	30	45	47	49	51	52	53	54	61	64	67	70	75	78	NUMBER	TYP	C		
7462512	AFPB	97942	A9D	4130007885964BF	EA	01	2R	W	A	H	9028	AJ1	020	361	AA	A8D		0290012	61			
74325	AFPB	97942	A9D	1439006777586BF	EA	01	2R	W	A	H	9028	AJ1	021	285		A8D		0290015	61			
62136	AFPB	93614	A9D	1439006777586BE	EA	01	2R	W	F	H	9028	AJ1	027	206		A8D		0290014	63			

VIDS/MAF COPY 2										DAILY AUDIT REPORT PART II - INVALID DATA										30 JAN 89 DAR #		
WUC	TEC	MFGR	ORG	NSNPN	UI	QTY	COG	P	C	C	DAT	ORG	DAY	SER	SUF	SUP	ORG	AWAY	DOC	REC	C	
1	8	12	27	30	45	47	49	51	52	53	54	61	64	67	70	75	78	NUMBER	TYP	C		
74321	AFPB	.....	A9D	6120006625171BE	EA	01	2R	W	A	H	9028	AJ1	019	408	A	A8D		0290011	61		
76413	AFPB	97961	A9D	1230007885000BF	EA	01	2R	W	F	H	....	AJ1	011	861		A8D		0150008	63		X
72131	AFPB	44882	A9D	1430007864010BF			2R	W	F	H	9011	AJ1	009	774		A8D		0170007	63		X	
																				

Figure 5-13.-VIDS/MAF Copy 1 Daily Audit Report.

It is designed so the maintenance officer will have a record of maintenance performed on the equipment for which the maintenance officer is responsible.

TECHNICAL DIRECTIVE COMPLIANCE REPORT (MDR 4-1)

This report gives a detailed list, by organization, of technical directive compliance during the reporting period. It is designed for the maintenance control officer as an aid in scheduling and maintaining positive control of technical directive compliance actions (fig. 5-16).

MAINTENANCE ACTION BY BUREAU/SERIAL NUMBER REPORT (MDR-5)

This report consolidates all maintenance actions in bureau/serial sequence including

support equipment, technical directive compliance, and component repair at the IMA. This report is designed to provide a history of maintenance actions by bureau/serial number and is intended for organizational and intermediate level managers, analysts and maintenance officers (fig. 5-17).

MAINTENANCE ACTION BY SYSTEM AND COMPONENT REPORT (MDR-6)

This report consolidates all maintenance actions by component, including technical directive compliance. It can be used to identify troublesome systems or components within systems which are indicated by a large number of maintenance actions or excessive man-hours expended for that system or component. The report is prepared and provided to the maintenance officer (fig. 5-18).

MDR-4-1		TECHNICAL DIRECTIVE COMPLIANCE REPORT																JAN 89		
JCNORG: AC3																				
	Bureau Serial Number	Type Equipment Code	Directive Number	Amendment Revision	Part/Kit	Work Unit Code	Status Code	Items Processed Organizational	Man-hours Organizational	Items Processed Intermediate	Man-hours Intermediate	Elapsed Maintenance Time	Maintenance Level	Action Date	Action Organization	Work Center	Job Control Number	Transaction Code		
	BUNO	TEC	INT	TDC		WUC	SC	IPO	MHRSO	IPI	MHRSI	EMT	ML	DATE	ORG	WC	JCN	TR		
(1)	151688	AAEA	50	0047		01	13300	C	1	6.0		3.0	1	9015	AC3	120	AC3	015	061	47
(2)	151688	AAEA	50	0047		01	13162	A		2.0		2.0	1	9015	AC3	210	AC3	015	061	47
(3)								*	1	8.0		5.0								
(4)	151688	AAEA	54	0046	A 1	00	64485	C	1	13.0		6.0	1	9015	AC3	220	AC3	014	112	41
(5)								*	1	13.0		6.0								
(6)	151688	AAEA	54	0046	A 2	01	64485	D	1	.5		.5	1	9015	AC3	220	AC3	014	113	41
(7)								*	1	.5		.5								
(8)								**	3	21.5		11.5								
(9)	151689	AAEA	50	0047		01	13000	C	1	8.0		4.0	1	9025	AC3	120	AC3	015	060	47
(10)	151689	AAEA	50	0047		01	13162	A		3.0		3.0	1	9025	AC3	210	AC3	015	060	47
(11)								*	1	11.0		7.0								
(12)	151689	AAEA	54	0046	A 1	00	64485	D	1	.5		.5	1	9025	AC3	220	AC3	014	111	41
(13)								*	1	.5		.5								
(14)	151689	AAEA	54	0046	A 2	01	64485	C	1	5.0		5.0	1	9025	AC3	220	AC3	014	110	41
(15)								*	1	5.0		5.0								
(16)								**	3	16.5		12.5								
(17)	151690	AAEA	66	0135		01	96A10	C			1	2.5	2	9025	A98	820	AC3	016	006	47
(18)								*			1	2.5								
(19)								**			1	2.5								
(20)								***	6	38.0	1	2.5								

Figure 5-16.-Technical Directive Compliance Report (MDR 4-1).

MDR-5		MAINTENANCE ACTION BY BUREAU/SERIAL NUMBER REPORT																										JAN 69																		
JCNRG: AT1																																														
Type Equipment Code	Bureau/Serial Number	Work Unit Code	Type Maintenance	Manufacturers Code	Position	When Discovered	Action Taken	Malfunction	Fault Isolation Detection	Organization	Work Center	Items Processed Organizational	Man hours Organizational	Elapsed Maintenance Time Organizational	Items Processed Intermediate	Man hours Intermediate	Elapsed Maintenance Time Intermediate	Job Control Number	Date	Part Number/Technical Directive Compliance Code	Transaction Code																									
TEC	BUNO	TM	WUC	MFGR	POS	WD	AT	MAL	FID	ORG	WC	IPO	MHR	SO	EMTO	IPI	MHR	SI	EMTI	JCN	DATE	PART/TDC	TR																							
(1)	APBD	161011	B	4214100		D	A	799		AT1	X20	1	3.5	3.5					AT1008127	9008		11																								
(2)	APBD	161011	B	4214120	96906		A	C	127	A9C	X20				1	4.0	2.0		AT1009131	9010	MS34721-14	31																								
(3)	APBD	161011	B	4214120	96906		A	R	615	AT1	X20	1	7.4	3.7					AT1009131	9009	MS34721-14	23																								
(4) SUBSYSTEM TOTAL																																														
(5)	APBD	161011	B	42153		D	A	799		AT1	X20	1	5.2	2.6					AT1023110	9023		11																								
(6)	APBD	161011	B	42153		D	C	615		AT1	X20	1	2.5	2.5					AT1027142	9028		12																								
(7) SUBSYSTEM TOTAL																																														
(8)	APBD	161011	B	42172	47315		A	C	615	A9C	X20				1	12.2	5.0		AT1015123	9017	223176	31																								
(9)	APBD	161011	B	4217K		D	C	127		AT1	X10	1	1.0	1.0					AT1016124	9016		11																								
(10)	APBD	161011	B	42172	47315		A	R	615	AT1	X20	1	3.0	1.5					AT1015123	9015	223176	23																								
(11) SUBSYSTEM TOTAL																																														
(12) TM TOTAL												6	22.6	14.8	2	16.2	7.0																													
(13) BUNO TOTAL												6	22.6	14.8	2	16.2	7.0																													
(14) WD TOTAL																						A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
(15)																						2			4																					
(16) TEC TOTAL												6	22.6	14.8	2	16.2	7.0																													
(17) ORG TOTAL												6	22.6	14.8	2	16.2	7.0																													
(18) NO DEFECTS TOTAL				ORG TOTAL				2	ORG PERCENT				33.3	INT TOTAL				0	INT PERCENT				.0																							

Figure 5-17.-Maintenance Action By Bureau/Serial Number Report (MDR-5)

MDR-6		MAINTENANCE ACTION BY SYSTEM AND COMPONENT REPORT																				JAN 89			
ORG: AT1																									
	Work Unit Code	Part Number/Technical Directive Compliance Code	Manufacturer's Code	Completion Date	Job Control Number	Elapsed Maintenance Time	Main hours	Items Processed	Type Maintenance	When Discovered	Fault Isolation Detection	Malfunction	Action Taken	Bureau/Serial Number	Type Equipment Code	Position	WUC	WC	TR						
(1)	011	APBD						A	215	289.3								X10	Q1						
(2)	COMPONENT TOTAL																								
(3)	031	APBD						C	120	142.5								X10	01						
(4)	032	APBD						D	92	118.7								X10	01						
(5)	COMPONENT TOTAL																								
(6)	SUBSYSTEM TOTAL																								
(7)	ATTOTAL A B C E J K L N P Q R S T Y Z O																								
(8)	TEC TOTAL																								
(9)	4231100	APBD	161011					A	799									X20	11						
(10)	4231100	APBD	161012					C	127									X20	11						
(11)	4231100	APBD	161013					R	374									X20	23						
(12)	COMPONENT TOTAL																								
(13)	4231210	APBD	161005					A	127									X20	11						
(14)	4231210	APBD	161010					C	070									X20	11						
(15)	COMPONENT TOTAL																								
(16)	SUBSYSTEM TOTAL																								
(17)	ATTOTAL A B C E J K L N P Q R S T Y Z O																								
(18)	2 2																								
(19)	42810	APBD	161007					C	615									X20	11						
(20)	COMPONENT TOTAL																								
(21)	SUBSYSTEM TOTAL																								
(22)	ATTOTAL A B C E J K L N P Q R S T Y Z O																								
(23)	1																								
(24)	TECTOTAL																								
(25)	WD TOTAL A B C D E F G H J K L M N O P Q R S T U V W X Y																								
(26)	1 3 1																								

Figure 5-18.-Maintenance Action by System and Component Report (MDR-6).

COMPONENT REPAIR/BEYOND CAPABILITY OF MAINTENANCE (BCM) REPORT (MDR-7)

This report provides a spread of action taken codes for maintenance actions taken by the intermediate level and provides the maintenance officer and the maintenance/material control officer with an overview of the entire production effort of the activity by work center and work unit code within a type equipment (fig. 5-19). The report can be used to determine the percentage of components received at the intermediate maintenance activity (IMA) that do not require any repair.

FAILED PARTS/PARTS REQUIRED REPORT (MDR-8)

This report is prepared from data submitted on the VIDS/MAF with transaction code 12 or

32 and a malfunction code (not 000) entered in the (H-Z) Failed/Required Material block (fig. 5-20). This report is intended for the maintenance officer, material control officer, and work center supervisors. The report can be used to identify part numbers that have a high awaiting parts (AWP) time.

REPAIR CYCLE DATA REPORT (MDR-9)

This monthly report is a detailed list, by organization, showing the number of days of turnaround time and the elements that compose the turnaround time for each repairable component processed through the intermediate maintenance activity as documented on the VIDS/MAF, or Metrology Equipment Recall (METER) card (fig. 5-21). This report can be used to identify components that appear repeatedly in the intermediate level repair cycle.

MDR-7		COMPONENT REPAIR/BEYOND CAPABILITY OF MAINTENANCE REPORT																				JAN 89										
ORG: A9F																																
Action Organization	Job Control Number	Work Center	Work Unit Code	Position	Type Equipment Code	Manufacturer's Code	Part Number	Total Items Not Repaired												Total Items Repaired		Total Man hours	Total EMT									
								1	2	3	4	5	6	7	8	9	BCM	A	B	C	J	K	Z	RPR	OTH	TOT	MH	EMT				
(1)	A9F	AT1	431	3251366	APBD	94585	TF3400-4																1			1						
(2)				WUC/TEC/JCNORG TOTAL																				1			1	2	1			
(3)	A9F	AT3	431	325136C	APBD	54112	390897-2	1										1							1	4	2					
(4)				WUC/TEC/JCNORG TOTAL																	1			1			1	4	2			
(5)	A9F	AT5	431	3251200	APBC	54331	4418-31													1				1	1	1						
(6)	A9F	AT5	431	3251200	APBC	54331	4418-32													3				3	5	4						
(7)	A9F	AT5	431	3251200	APBC	54331	4418-33A													1				1	1	1						
(8)				WUC/TEC/JCNORG TOTAL																	5			5			5	7	6			
(9)	A9F	AT5	431	3251200	APBD	54331	4418-33A			1						1	2	1	2				3	5	14	10						
(10)				WUC/TEC/JCNORG TOTAL																	1			1	2	1	2	3	5	14	10	
(11)				WC TOTAL																	1			1	3	1	8		9	12	27	19
(12)				DIVISION TOTAL																	1			1	3	1	8		9	12	27	19
(13)				ORGANIZATION TOTAL																	1			1	3	1	8		9	12	27	19

Figure 5-19.-Component Repair/Beyond Capability of Maintenance (BCM) Report (MDR-7).

MDR-8			FAILED PARTS/PARTS REQUIRED REPORT																		JAN 89					
ORG: A9D																										
Transaction Code	Awaiting Parts Indicator	Failed Parts	Date Received	Requisition Number	Date Ordered	Priority	Completion Date	Job Control Number	Quantity	Reference Symbol	Manufacturer's Code	Part Number	Bureau/Serial Number	When Discovered	Malfunction	Action Taken	Type Maintenance	Type Equipment Code	Position	Work Unit Code	Work Center	Action Organization	Transaction Code			
																							P	A		
DATE	DATE	P	A	DATE	DATE	PRI	DATE	DATE	QTY	REFSYM	MFCR	PART	BUNO	WD	MAL	AT	TM	TEC	POS	WUC	WC	ORG	P	W		
9007	G973	9007	1	32	9021	G735	9029	1	1	82227	527	3537A-0	141687	D	649	R	B	AAEA		650	7363100	A9D				
9029	G735	9029	1	1	9021	G735	9029	1	1	82227	527	3537A-0	151776	H	561	R	B	AAEC		650	7363100	A9D				
PART TOTAL																									2	
9005	G974	9007	1	1	9005	G974	9007	1	1	49671	523	866542	151687	D	450	R	B	AAEA		650	7363200	A9D				
9010	G988	9028	1	1	9010	G988	9028	1	1	49671	523	866542	151689	M	450	R	G	AAEA		650	7363200	A9D				
9029	G910	9029	1	1	9029	G910	9029	1	1	49671	523	866542	151778	E	602	R	B	AAEC		650	7363200	A9D				
PART TOTAL																									3	
9006	G975	9028	1	1	9006	G975	9028	1	1	29146	381	866554	151776	D	958	R	B	AAEA		650	73X2P00	A9D				
9011	G990	9011	1	1	9011	G990	9011	1	1	29146	381	866554	151778	H	064	R	B	AAEA		650	73X2P00	A9D				
9019	G907	9027	1	1	9019	G907	9027	1	1	29146	381	866554	151834	D	450	R	B	AAEC		650	73X2P00	A9D				
9022	G744	9026	1	1	9022	G744	9026	1	1	29146	381	866554	151879	N	602	R	Q	AAEC		650	73X2P00	A9D				
PART TOTAL																									4	
9019	G908	9027	1	1	9019	G908	9027	1	1	72726	734	869993	151776	D	450	R	B	AAEA		650	73X4C10	A9D				
9022	G745	9026	1	1	9022	G745	9026	1	1	72726	734	869993	151778	D	561	R	B	AAEC		650	73X4C10	A9D				
PART TOTAL																									2	

Figure 5-20.-Failed Parts/Parts Required Report (MDR-8).

MDR-9		REPAIR CYCLE DATA REPORT																		JAN 89	
ORG: A9D																					
Action Organization	Work Center	Part Number	Type Equipment Code	Component/Serial Number	Job Control Number	Work Unit Code	Malfunction Code	Items Processed	Action Taken	Transaction Code	Elapsed Maintenance Time	Man hours	Processing	Scheduling	Repair	Awaiting Parts	In Work	IMA TAT	Total Turnaround Time	Completion Date	
ORG	WC	PART	TEC	SER	JCN	WUC	MAL	IP	AT	TR	EMT	MHRS	PRO	SCH	REP	AWP	WORK	IMA	TOT	DATE	
A9D	610	1267	AAEA	1063	AC3003022	7236400	127	1	C	31	8.4	16.8	3		1		1	1	4	9008	
A9D	610	1267	AAEA	2276A	AC3003214	7236400	255	1	C	32	4.4	13.2	1		1	1	2	2	3	9008	
A9D	610	1267	AAEA	4322	AC3004110	7236400	962	1	C	32	1.8	5.4		1	1		1	2	2	9009	
TEC TOTAL										3	14.6	35.4	4	1	3	1	4	5	9		
TEC AVERAGE													1.3	.3	1.0	.3	1.3	1.7	3.0		
A9D	610	1267	AAEC	78	AC3003021	7236400	806	1	A	31	1.1	2.2			1		1	1	1	9007	
A9D	610	1267	AAEC	965A	AC3004421	7236400	127	1	C	32	1.7	5.1			1		1	1	1	9012	
TEC TOTAL										2	2.8	7.3			2		2	2			
TEC AVERAGE													.0	.0	1.0	.0	1.0	1.0	1.0		
PART NUMBER TOTAL										5	17.4	42.7	4	1	5	1	6	7	1		
PART NUMBER AVERAGE													.8	.2	1.0	.2	1.2	1.4	2.2		
WORK CENTER TOTAL										5	17.4	42.7	4	1	5	1	6	7	11		
WORK CENTER AVERAGE													.8	.2	1.0	.2	1.2	1.4	2.2		
ORG TOTAL										3064	734.5	11466.4	3370	2451	4289	7660	11949	14400	17770		
ORG AVERAGE													1.1	.8	1.4	2.5	3.9	4.7	5.8		
TOTAL TIME IN DAYS																					
				0-3	4-10	11-20	21-30	31-60	61-90	91-120	121-150	OVER 150									
				RFI BCM	RFI BCM	RFI BCM	RFI BCM	RFI BCM	RFI BCM	RFI BCM	RFI BCM	RFI BCM	RFI BCM	RFI BCM	RFI BCM	RFI BCM	RFI BCM	RFI BCM	RFI BCM	RFI BCM	
				1265	616	317	140	230	83	61	51	108	58	48	23	15	8	13	1	18	9

Figure 5-21.-Repair Cycle Data Report (MDR-9).

FOREIGN OBJECT DAMAGE (FOD) REPORT (MDR-10)

This report is used to measure the maintenance effort attributable to FOD. Components replaced, repaired, condemned, etc., can be identified by the data in the MDR file. Indirectly, the report reflects housekeeping conditions (cleanliness of ramps, runways, hangar area, etc.) or the maintenance methods of personnel (adherence to proper maintenance practices (fig 5-22). The source of data for this report is the VIDS/MAF (excluding transaction code 72), which contains malfunction code 301.

CORROSION CONTROL/TREATMENT REPORT (MDR-11)

This report is designed for monitoring the Corrosion Control Program or for investigating the amount of corrective corrosion treatment necessary (fig. 5-23). Support action code 04 and malfunction code 170 are the two sources of

information that are used to identify these areas. It is a simple matter to determine whether any specific portion of the aircraft, by work unit code, needs a better corrosion control program. This report is subject to change due to the deletion of the Support Action Form (SAF).

NO DEFECT REPORT (MDR-12)

This report shows the amount of time and effort expended on maintenance for which there is no malfunction (fig. 5-24). This report can be used to determine man-hours expended in removing or installing items with no known malfunction, solely to facilitate other maintenance.

WHEN MALFUNCTION WAS DISCOVERED REPORT (MDR-13)

This report shows the action taken by category of each when discovered code

MDR-10		FOREIGN OBJECT DAMAGE REPORT																	JAN 89				
ORG: AC3																							
Work Unit Code		Position	Type Equipment Code	Bureau Serial Number	When Discovered		Type Maintenance		Action Taken	Malfunction	Failure Isolation Detection		Items Processed	Man-hours	Manufacturers Code	Part Number	Reference Symbol	Job Control Number	Action Organization		Work Center	Completion Date	Transaction Code
WUC	POS	TEC	BUNO	WD	TM	AT	MAL	FID	IP	MHRS	MFGR	PART NUMBER	REFSYM	JCN	ORG	WC	DATE	TR					
(1)	11421	AAEA	151687	E	B	R	301		1	4.5	26512	128H100555		AC3022622	AC3	120	9022	23					
(2)	11421	AAEA	151687	E	B	C	301		1	12.0	26512	128H100555		AC3022622	A9D	540	9023	32					
(3)						R	301				26512	128H41	215										
(4)	14814	AAEA	151688	E	B	C	301		1	2.5				AC3022629	AC3	120	9022	11					
(5)	23500	AAEA	151689	J	B	C	301		1	5.0				AC3024024	AC3	110	9024	12					
(6)						O	000				JHHA1	673498 E1425											
(7)	23500	AAEA	151689	C	B	R	301		1	16.0	JHHA1			AC3025123	AC3	110	9026	23					
(8)	23500	AAEA	151689	C	B	C	301		1	122.0	JHHA1			AC3025123	A9D	410	9026	32					
(9)						R	301				73481	135HA10											
(10)	2358100	AAEA	151690	J	B	R	301		1	2.0	77224	184A150		AC3025127	AC3	110	9026	25					
(11)							000				JHHA1	673473 E0258											
(12)	2358100	AAEA	151690	J	B	C	301		1	10.0	77224	184A150		AC3025127	A9D	410	9026	32					
(13)						R	301				77224	184A150-1											
(14)									*	8	174.0												
(15)									**	8	174.0												

Figure 5-22.-Foreign Object Damage Report (MDR-10).

MDR-11		CORROSION CONTROL/TREATMENT REPORT																	MAY 89	
ORG: AC3																				
Transaction Code	Job Control Number	Work Center	Action Organization	Part Number	Manufacturers Code	Completion Date	Maintenance Level	Elapsed Maintenance Time	Man-hours	Items Processed	Fault Isolation Detection	Malfunction	Action Taken	Type Maintenance When Discovered	Bureau/Serial Number	Type Equipment Code	Position	Work Unit Code		
TR	JCN	WC	ORG	PART NUMBER	MFGR	DATE	ML	EMT	MHRS	IP	FID	MAL	AT	TM	WD	BUNO	TEC	POS	WUC	
01		X10	AC3				1		61.5	23				A		AAEA 151692		040	(1)	
01		X2A	AC3				1	15.0	21				A			AAEA 151692		041	(2)	
01		X60	AC3				1	5.0	6				A			AAEA 151692		045	(3)	
01		X3A	AC3				1	10.0	8				A			AAEA 151692		048	(4)	
01		X10	AC3				1	6.0	2				A			AAEA 151692		049	(5)	
								97.5	60	*									(6)	
11	AC3122636	X2A	AC3			9122	1	4.0	2				F B Z	170		AAEA 151692		1111C	(7)	
11	AC3122011	X2A	AC3			9122	1	1.0	1				J D Z	170		AAEA 151692		1111C	(8)	
11	AC3122A30	X2C	AC3			9122	1	1.0	1				M G Z	170		AAEA 151692		1111C	(9)	
								6.0	4	*									(10)	
11	AC3122012	X20	AC3			9122	1	3.5	1				J D Z	170		AAEA 151692		11930	(11)	
								3.5	1	*									(12)	
11	AC3122637	X10	AC3			9122	1	2.0	1				F B Z	170		AAEA 151692		11221	(13)	
11	AC3122009	X10	AC3			9122	1	1.5	1				R B Z	170		AAEA 151692		11221	(14)	
								2.9	2	*									(15)	
11	AC3122265	X10	AC3			9122	1	3.0	1				J D Z	170		AAEA 151692		2951C	(16)	
11	AC3122061	X10	AC3			9122	1	3.0	1				J D Z	170		AAEA 151692		2951C	(17)	
								4.5	2	*									(18)	
								16.9	69	**									(19)	
								116.5	69	***									(20)	

Figure 5-23.-Corrosion Control/Treatment Report (MDR-11).

MDR-12		NO DEFECT REPORT																	JAN 89	
ORG: AC3																				
Transaction Code	Job Control Number	Work Center	Serial Number	Part Number	Manufacturer's Code	Completion Date	Maintenance Level	Elapsed Maintenance Time	Man-hours	Items Processed	Fault Isolation Detection	Malfunction	Action Taken	Type Maintenance When Discovered	Bureau/Serial Number	Type Equipment Code	Position	Work Unit Code		
TR	JCN	WC	SERIAL	PART NUMBER	MFGR	DATE	ML	EMT	MHRS	IP	FID	MAL	TM	WD	BUNO	TEC	POS	WUC		
11	AC3022431	X20				9022	1	1.5	1.5	1			E	B	A	799	AAEA	151687	11910	
11	AC3022435	X20				9022	1	.5	.5	1			E	B	A	799	AAEA	151687	11A10	
11	AC3022102	X20				9022	1	1.0	1.0	1			J	D	A	799	AAEA	151685	11A21	
								3.0	3.0		*									
11	AC3022112	X10				9022	1	1.0	1.0	1			J	D	A	799	AAEA	151689	29310	
11	AC3022361	X10				9022	1	.5	.5	1			B	B	A	799	AAEA	151687	29620	
								1.5	1.5		*									
								4.5	4.5		**									
11	AC3022023	X30				9022	1	3.0	1.5	1			O	B	S	800	AAEA	151686	1122110	
								1.5		1	*									
								1.5		1	**									
11	AC3022315	X30				9022	1	3.5	1.5	1			O	B	S	804	AAEA	151698	12110	
								1.5	1.5		*									
								3.5	1.5		**									
18	AC3022019	X20	193742	A2165	06275	9022	1	1.0	1.0	1			O	B	T	814	AAEA	151686	51114	
18	AC3022020	X20	BAH1990	18744	82430	9022	1	1.0	1.0	1			O	B	T	814	AAEA	151686	51114	
								2.0	2.0		*									
								2.0	2.0		**									
								9.5	13.0	9	***									

Figure 5-24.-No Defect Report (MDR-12).

(fig. 5-25). This report is prepared from data submitted on the METER card and the VIDS/MAF, excluding transaction codes 00, 02, 03 and 72. This report is intended for use by the maintenance officer. The report can be used to determine how many abort malfunctions were caused by mechanical failures, what caused them, whether these malfunctions were discovered before flight or while in flight, and whether they could have been eliminated by better inspections of the aircraft.

MONTHLY EQUIPMENT DISCREPANCY AND UTILIZATION REPORT (SCIR-3)

This report is designed to show, by bureau/serial number, the total number of discrepancy hours that limited the equipment from performing its assigned mission or function during the reporting period (fig. 5-26). The report is designed for the maintenance officer and may be used to determine the impact of maintenance/supply on

the mission capability of the equipment. Equipment in/out of service hours, flight hours, and number of flights are also shown.

MONTHLY EQUIPMENT CAPABILITY REPORT (SCIR-4)

This report is designed to reflect equipment capability to perform its assigned mission/function during a reporting period (fig. 5-27). This report is prepared from VIDS/MAF documents that have a valid equipment operational capability (EOC) code documented in the Repair Cycle or Maintenance/Supply Record. This report reflects percent of mission capability of equipment by bureau/serial number and overall totals for that type of equipment.

MONTHLY EQUIPMENT MISSION CAPABILITY SUMMARY REPORT (SCIR-5-1)

This report is designed to display SCIR hours by mission category and awaiting maintenance

MDR-13 WHEN MALFUNCTION WAS DISCOVERED REPORT													JAN 89
ORG: AC3													
	Type Equipment Code	When Discovered	Work Unit Code	Position	Action Taken	Malfunction Description	Fault Isolation Detection	Job Control Number Organization	Action Organization	Items Processed	Man-hours	Elapsed Maintenance Time	
	TEC	WD	WUC	POS	AT	MAL	FID	JCNORG	ACTORG	IP	MHRS	EMT	
(1)	AAEA	B	76931		R	561		AC3	AC3	2	1.0	1.0	
(2)	AAEA	B	76931		C	127		AC3	AC3	5	5.0	5.0	
(3)										7	6.0	6.0	
(4)	A B C J	K L N P	Q R S T Y Z	0						7	6.0	6.0	
(5)													
(6)	AAEA	D	29313		C	167		AC3	AC3	1	4.0	2.0	
(7)	AAEA	D	29313		R	020		AC3	AC3	1	6.0	3.0	
(8)										2	10.0	5.0	
(9)	AAEA	D	41171		R	167		AC3	AC3	1	6.0	3.0	
(10)										1	6.0	3.0	
(11)	AAEA	D	46634		B	105		AC3	AC3	3	2.5	2.5	
(12)	AAEA	D	46634		C	070		AC3	AC3	1	.5	.5	
(13)										4	3.0	3.0	
(14)	AAEA	D	72361		R	383		AC3	AC3	2	1.5	1.5	
(15)										2	1.5	1.5	
(16)	AAEA	D	73364		R	383		AC3	AC3	2	1.5	1.5	
(17)										2	1.5	1.5	
(18)	A B C J	K L N P	Q R S T Y Z	0						11	22.0	14.0	
(19)													
(20)	AAEA	E	11921		B	381		AC3	AC3	3	12.0	5.0	
(21)	AAEA	E	11921		C	381		AC3	AC3	2	10.0	10.0	
(22)	AAEA	E	11921		R	381		AC3	AC3	1	6.0	3.0	
(23)										6	28.0	18.0	
(24)	A B C J	K L N P	Q R S T Y Z	0						6	28.0	18.0	
(25)										24	56.0	38.0	
(26)													

Figure 5-25.-When Malfunction Was Discovered Report (MDR-13).

SCIR-3		MONTHLY EQUIPMENT DISCREPANCY AND UTILIZATION REPORT																	MAY 89																		
JCNORG - AF4		PUC - 000029																	... TOTAL ...		... SHPOP ...		TOTAL												
BUNO		Type Equipment Code		Not Mission Capable/Scheduled		Not Mission Capable/Unscheduled		Not Mission Capable Supply		Partial Mission Capable Maintenance		Partial Mission Capable Supply		Full Mission Capable		Full Mission Capable Supply		Equipment IN Service Hours		Equipment OUT Service Hours		Inventory Indication		Meter or Utilization Base		Equipment Utilization		Total Flight Hours		Total Number Flights		Ship Operation Flight Hours		Ship Operation Number Flights		Total SCIR Hours	
BUNO	TEC	SCH	UNS	SUP	MNT	SUP	MNT	SUP	MNT	SUP	EIS	EOS	INV	IND	MTR	AUB	EQUIP	UTL	FLT	HRS	NR	FLTS	FLT	HRS	NR	FLTS	FLT	HRS	NR	FLTS	SCIR	HRS					
(1)	157453	AAFF	117	174		9	18				744		A						6		4											1407					
(2)	157587	AAFF	37	93	33	81	18				744		A						35		15		22		9						682						
(3)	157593	AAFF		168	397	27	148				744		A						12		5		5		2						2877						
(4)	158004	AAFF	2	632	10						744		A						8		4										1747						
(5)	159657	AAFF	26	45	5	144	294				744		A						63		21		39		14						805						
(6)	159969	AAFF	2	142	2	21					744		A						29		11		10		4						245						
(7)	159978	AAFF	28	92		209	41	295			744		A																		1055						
	*		212	1346	447	491	519	295			5208								153		60		76		29						8818						
(8)	**		212	1346	447	491	519	295			5208								153		60		76		29						8818						

Figure 5-26.-Monthly Equipment Discrepancy and Utilization Report (SCIR-3).

SCIR-4		MONTHLY EQUIPMENT CAPABILITY REPORT																	MAY 89		
ORG: AF4		TEC: AAFF																			
Bureau/Serial Number		PERCENT OF MISSION CAPABILITY																	Equipment Available Hours		
Full Mission Capable		Partial Mission Capable																	Equipment IN Service Hours		
Not Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Bureau/Serial Number		Equipment OUT Service Hours																	Equipment IN Service Hours		
Full Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Not Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Bureau/Serial Number		Equipment OUT Service Hours																	Equipment IN Service Hours		
Full Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Not Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Bureau/Serial Number		Equipment OUT Service Hours																	Equipment IN Service Hours		
Full Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Not Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Bureau/Serial Number		Equipment OUT Service Hours																	Equipment IN Service Hours		
Full Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Not Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Bureau/Serial Number		Equipment OUT Service Hours																	Equipment IN Service Hours		
Full Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Not Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Bureau/Serial Number		Equipment OUT Service Hours																	Equipment IN Service Hours		
Full Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Not Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Bureau/Serial Number		Equipment OUT Service Hours																	Equipment IN Service Hours		
Full Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Not Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Bureau/Serial Number		Equipment OUT Service Hours																	Equipment IN Service Hours		
Full Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Not Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Bureau/Serial Number		Equipment OUT Service Hours																	Equipment IN Service Hours		
Full Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
Not Mission Capable		Equipment OUT Service Hours																	Equipment IN Service Hours		
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Figure 5-27.-Monthly Equipment Capability Report (SCIR-4).

(AWM) hours by reason codes, summarized for a given EOC code and associated work unit code during a reporting period (fig. 5-28). This report is prepared from VIDS/MAF documents that have a valid EOC code documented in the Repair Cycle or Maintenance/Supply Record.

MONTHLY EQUIPMENT MISSION CAPABILITY BUREAU/SERIAL SUMMARY REPORT (SCIR-5-2)

This report shows SCIR hours by mission category and awaiting maintenance (AWM) hours by reason codes, summarized by a given EOC code and associated work unit code by bureau/serial number (fig. 5-29). This report is prepared from VIDS/MAF documents that have a valid EOC code documented in the Repair Cycle/ or Maintenance/Supply Record.

MONTHLY MISSION AND MAINTENANCE DATA DETAIL BY BUREAU/SERIAL REPORT (SCIR-5-3)

This report is designed to show mission capability and maintenance data for each

VIDS/MAF submitted for a given EOC code and associated work unit code by bureau/serial number within type equipment code and job control number organization (fig. 5-30).

MONTHLY MAINTENANCE SUMMARY

After the analyst masters and develops his or her own analysis techniques and becomes familiar with all of the Maintenance Data System (MDS) reports and their individual uses, then it is time to arrange the data in a format so that all maintenance personnel can easily understand the data presented.

To be of practical use to management, summarized reports must be compiled, studied, and analyzed by all supervisory personnel in the maintenance activity. The most common format for presenting equipment maintenance and utilization data on a monthly basis is the monthly maintenance summary. The monthly maintenance summary provides a coordinated combination of

SCIR-5-1		MONTHLY EQUIPMENT MISSION CAPABILITY SUMMARY REPORT																	MAY 89				
ORG: AF4																			DATE: 05/31/89				
TEC: AAFP																			PAGE: 01				
NOTE: DECIMAL ASSUMED																							
Equipment Operational Code	Work Unit Code	Total SCIR Hours	Full Mission Capable Hours Maintenance		Partial Mission Capable Hours Maintenance		Partial Mission Capable Hours Supply		Not Mission Capable Hours Scheduled		Not Mission Capable Hours Unscheduled		Not Mission Capable Hours Supply		AWM Hours by Reason Code								Total AWM Hours
			FMC MNT	HRS SUP	PMC MNT	HRS SUP	SCH	NMC HRS UNS	SUP	1	2	3	4	5	6	7	8	0	TOTAL				
(1) B51	51141	5	5																				
(2) B57	573M3001371	10	10	1361																			
(3) B72	72382	43	25	18																			
(4) * TOTAL		1419	40	1379																			
(5) PERCENT		100.0	2.8	97.2																			
(16) J44	44112	1575			154	1421																	
(7) L13	73662	508			10	498																	
(8) * TOTAL		2083			164	1919																	
(9) PERCENT		100.0			7.9	92.1																	
(10) Z23	23500	637																					
(11) Z42	42A6B00	8																					
(12) Z42	42A6500	20																					
(13) Z45	45211	40																					
(14) Z51	51143	320																					
(15) Z51	51430	40																					
(16) * TOTAL		1065																					
(17) PERCENT		100.0																					
(18) ** TOTAL		4567	40	1379	164	1919																	
(19) PERCENT		100.0	.9	30.2	3.6	42.0																	
(20) *** TOTAL		4567	40	1379	164	1919																	
(21) PERCENT		100.0	.9	30.2	3.6	42.0																	

Figure 5-28. Monthly Equipment Mission Capability Summary Report (SCIR-5-1).

SCIR-5-2		MONTHLY EQUIPMENT MISSION CAPABILITY BUREAU/SERIAL SUMMARY REPORT																				MAY 89				
ORG: AF4 TEC: AAFP		BUREAU/SERIAL NUMBER: 157453 NOTE: DECIMAL ASSUMED															DATE: 05/31/89 PAGE: 01									
Equipment/Operational Code	Work Unit Code	TOTAL SCIR HOURS	Full Mission Capable Hours Maintenance		Partial Mission Capable Hours Maintenance		Full Mission Capable Hours Supply		Partial Mission Capable Hours Supply		Not Mission Capable Hours Scheduled		Not Mission Capable Hours Unscheduled		Not Mission Capable Hours Supply		AWM Hours by Reason Code								TOTAL	
			FMC HRS MNT	SUP	PMC HRS MNT	SUP	FMC HRS MNT	SUP	SCH	NMC HRS UNS	SUP	1	AWAITING MAINTENANCE BY REASON CODES								0					
													2	3	4	5	6	7	8							
(1) B51	51141	5	5																							
(2) B57	573M300	1371	10	1361																						
(3) B72	72382	43	25	18																						
(4) *	TOTAL	1419	40	1379																						
(5)	PERCENT	100.0	2.8	97.2												100.0										
(6) J44	44112	1575			154	1421																				
(7) L73	73662	508			10	498																				
(8) *	TOTAL	2083			164	1919																				
(9)	PERCENT	100.0			7.9	92.1										98.8										
(10) Z23	23500	637										322	315	72												
(11) Z42	42A6B00	8										8		3												
(12) Z42	42A6500	20										20														
(13) Z45	45211	40										40														
(14) Z51	51143	320										320														
(15) Z51	51430	40										40														
(16) *	TOTAL	1065										750	315	75	150	40			90	240						
(17)	PERCENT	100.0										70.4	29.6	12.6	25.2	6.7			15.1	40.4						
(18) **	TOTAL	4567	40	1379	164	1919						750	315	75	233	44			90	240						
(19)	PERCENT	100.0	9	30.2	3.6	42.0						16.4	6.9	11.0	34.1	6.4			13.2	35.1						
(20) ***	TOTAL	4567	40	1379	164	1919						750	315	75	233	44			90	240						
(21)	PERCENT	100.0	9	30.2	3.6	42.0						16.4	6.9	11.0	34.1	6.4			13.2	35.1						
(22) ****	TOTAL	4567	40	1379	164	1919						750	315	75	233	44			90	240						
(23)	PERCENT	100.0	9	30.2	3.6	42.0						16.4	6.9	11.0	34.1	6.4			13.2	35.1						

Figure 5-29.-Monthly Equipment Mission Capability Bureau/Serial Summary Report (SCIR-5-2).

SCIR-5-3		MONTHLY MISSION AND MAINTENANCE DATA DETAIL BY BUREAU/SERIAL REPORT																				MAY 89		
ORG: AF4		BUREAU/SERIAL NUMBER: 157453																				DATE: 05/31/89		
TEC: AAFP		NOTE: DECIMAL ASSUMED FOR MISSION CAPABILITY DATA, MAINTENANCE DATA NOT EDITED																				PAGE: 01		
Equipment/Operational Code		Work Unit Code	Total SCIR Hours	MISSION CAPABILITY DATA										MAINTENANCE DATA										Docum Number
				Full Mission Capable Hours Maintenance		Partial Mission Capable Hours Maintenance		Full Mission Capable Hours Supply		Partial Mission Capable Hours Supply		Not Mission Capable Hours Scheduled		Not Mission Capable Hours Unscheduled		Not Mission Capable Hours Supply		Elapsed Maintenance Time		Man-hours				
EOC	WUC	TOTAL SCIR HOURS	FMC HRS MNT	SUP	PMC HRS MNT	SUP	SCH	NMC HRS UNS	SUP	JCN	WC	TR	D	B	C	T	A	MAL	IP		MHRS	EMT	DOCNUM	
(1)	B51	51141	5																		1.0	.5	DTM0562	
(2)	B57	573M300	1371	10	1361																1.5	1.0	DTM2113	
(3)	B72	72382	43	25	18																2.1	2.1	DTM0894	
(4)	* TOTAL	1419	40	1379																				
(5)	PERCENT	100.0	2.8	97.2																				
(6)	J44	44112	1318			15	1302																	
(7)	J44	44112	16			13	3																	
(8)	J44	44112	241			125	116														2.6	4.3	DGK8584	
(9)	L73	73662	508			10	498														8.2	4.1	DGK8711	
(10)	* TOTAL	2083				164	1919														1.2	1.0	BLM6842	
(11)	PERCENT	100.0	.0	.0	7.9	92.1		.0	.0															
(12)	Z23	23500	637					322	315												2.0	1.0	BVV0405	
(13)	Z42	42A6B00	8					2																
(14)	Z42	42A6500	20					8													6.0	2.0	DTM0821	
(15)	Z45	45211	40					40													2.0	1.0	DTM1180	
(16)	Z51	51143	30					30													6.0	3.0	DTM0881	
(17)	Z51	51143	290					290													10.0	5.0	DTM0964	
(18)	Z51	51430	40					40													4.0	2.0	DTM1181	
(19)	* TOTAL	1065						750	315															
(20)	PERCENT	100.0	.0	.0		.0		70.4	29.6															
(21)	** TOTAL	4567	40	1379	164	1919		750	315															
(22)	PERCENT	100.0	9	30.2	3.6	42.0		16.4	6.9															
(23)	*** TOTAL	4567	40	1379	164	1919		750	315															
(24)	PERCENT	100.0	9	30.2	3.6	42.0		16.4	6.9															
(25)	**** TOTAL	4567	40	1379	164	1919		750	315															
(26)	PERCENT	100.0	9	30.2	3.6	42.0		16.4	6.9															

Figure 5-30.-Monthly Mission and Maintenance Data Detail by Bureau/Serial Report (SCIR-5-3).

MDS reports to highlight specific problem areas and improve overall maintenance management. Trends may be detected and corrected before they reach crisis levels through analysis over a period of time.

The monthly maintenance summary contains various displays; for example, charts, graphs, and tables that are used to present the results of analysis. Several examples of the various charts, graphs, and tables that are used in the monthly maintenance summary are contained in the latest edition of OPNAVINST 4790.2.

CHAPTER REVIEW QUESTIONS

- Q1. *What are the maintenance personnel assigned to quality assurance/analysis known as?*
- Q2. *What does NAMDRP stand for?*
- Q3. *What report provides a standard system for reporting explosive incidents?*
- Q4. *What report provides maintenance activities with a method for reporting deficiencies in new or newly reworked material?*
- Q5. *What form do you use to submit a category II (CAT II) Technical Publication Deficiency Report (TPDR)?*
- Q6. *An Aircraft Discrepancy Report (ADR) must be submitted not later than how many days after receipt of the aircraft?*
- Q7. *What report should you submit if a technical publication deficiency is detected that if not corrected, could result in death or injury to personnel?*
- Q8. *The data analyst must be a senior petty officer and formally trained in what?*
- Q9. *What is the function of analysis?*
- Q10. *What process involves the detailed study of all of the data?*
- Q11. *What form is used to submit source documents to the data services facility (DSF)?*
- Q12. *What action does the DSF take if a document is found to be illegible?*
- Q13. *What method is used to correct data in the VIDS/MAF A-Z record?*
- Q14. *What data is contained on part I of the VIDS/MAF copy 1 Daily Audit Report (DAR)?*
- Q15. *What report provides the work center supervisor with statistical data pertaining to the work center?*
- Q16. *What report can be used to identify part numbers that have a high awaiting parts (AWP) time?*
- Q17. *What report indirectly reflects house-keeping conditions?*
- Q18. *What report shows the amount of time and effort expended on maintenance for which there is no malfunction?*
- Q19. *What report is designed to reflect equipment capability to perform its assigned mission/function during a reporting period?*
- Q20. *What is the most common format for presenting equipment maintenance and utilization data on a monthly basis?*